

# Index for Civil Engineering



JANUARY—DECEMBER 1963, VOL. 33

Items concerning societies in a specific field appear under the specific subject head.

The Society is not responsible for any statements made or opinions expressed in its publications.

Reprints from this publication may be made on condition that full credit be given to the author and credit to CIVIL ENGINEERING, and that date of original publication be stated.

## Subject Index

### AGGREGATE

Maximum Size of Aggregate Affects Strength of Concrete, E.C. Higginson, G.B. Wallace, and E.L. Ore, CE:Nov 63:38

### AIR POLLUTION

National Conference on Air Pollution held in Washington, D.C., CE:Jan 63:64  
Short-Term Air-Pollution Studies in Five Cities, Frank A. Bell, Jr., CE:Feb 63:48

### AIRPORTS

Aero-Space Transport Div. Committee on Landing Area Facilities meets, CE:May 63:62  
Aero-Space Transport Div. Conf. set for San Francisco in April 1964, CE:Dec 63:78  
Aero-Space Transport Div. Executive Committee meets, CE:Mar 63:75  
New Jersey--Newark Airport starts expansion program, CE:Oct 63:88

### ALUMINUM

Fire Protection for Aluminum Alloy Structural Shapes, J.G. Kaufman and R.C. Kasser, CE:Mar 63:46  
Germany--Aluminum Pavilion at Hanover Fair wins international award, CE:Jun 63:81  
Metal-and-Paint Coatings for Long-Term Corrosion Resistance, A.P. Shepard, CE:Oct 63:50  
Pennsylvania--Westinghouse Telecomputer Center near Pittsburgh will make major use of aluminum, CE:Mar 63:91  
Dsc: R.W. Meier, CE:Jun 63:69  
Washington--Aluminum in Rocky Reach Dam, Robert M. Peters, CE:Jul 63:32  
Dsc: J.H. Fetty, CE:Oct 63:61  
Rep. by Author: CE:Oct 63:61

### AQUEDUCTS

California--automation studied for aqueducts, CE:Mar 63:88  
California--work on California aqueducts under way, CE:Sep 63:82

### ARBITRATION

Civil engineers named to national panel of American Arbitration Association, CE:Jun 63:62

### ARCHES

Two-Hinged Arches, Digital Computer Analysis and Design, Ira Hooper and P.C. Wang, CE:Dec 63:67

### ARCHITECTURE

Egypt--U.S. supports plan to preserve Abu Simbel, CE:Aug 63:86

### ARCTIC ENGINEERING

Adverse Weather--Its Effect on Engineering Design and Construction, dry cold conditions, Palmer W. Roberts, CE:May 63:50  
ASCE to participate in Permafrost Conference, CE:Jun 63:75

### AMERICAN SOCIETY OF CIVIL ENGINEERS

#### (ASCE) Aims and Activities

International Relationships in Engineering, William H. Wisely, CE:Jun 63:31  
Dsc: C.H.D. Harper, CE:Sep 63:63; Ramiro Parada, Oct 63:60; R.E. Coughlin, Nov 63:73  
Report of ASCE Task Committee on Society Objectives, CE:Jun 63:22; CE:Jun 63:72  
Dsc: R. Schmidt, CE:Oct 63:61; P. Geertson, Sep 63:64

#### (ASCE) Associate Member Forum

Metropolitan Section's educational activities, CE:Jun 63:77

#### (ASCE) Awards and Prizes

Announced by Board, CE:Jun 63:73  
Daniel W. Mead Competition for 1964 open, CE:Oct 63:73  
Daniel W. Mead Prize Essays due in June, CE:Apr 63:68  
Daniel Mead prizes for 1962 to be presented at Atlanta, CE:Jan 63:61  
John Fritz Medal goes to Lucius Clay, Hon. M., CE:Aug 63:74; Presented at San Francisco Conference, CE:Oct 63:69  
Professional Recognition Award to Donald Mattern, CE:Apr 63:66  
Research prizes to be presented at Atlanta, CE:Feb 63:40  
Society awards and fellowships available, CE:Jan 63:65  
See also, Bridges, Construction Industry, Outstanding Civil Engineering Achievement, Welding

#### (ASCE) Badges

The Wearing of the Badge, William H. Wisely, CE:Oct 63:31  
Dsc: Jack Sylvester, CE:Dec 63:68

#### (ASCE) Ballots

Nominating Ballot for 1964 officers canvassed, CE:Aug 63:76; Final Ballot, Oct 63:74

#### (ASCE) Board of Direction

Actions in Atlanta briefed, Feb. 25-26, CE:Apr 63:64  
Actions in Milwaukee briefed, CE:Jun 63:70  
Actions in San Francisco briefed, CE:Nov 63:74  
Acts in two professional conduct cases, CE:Apr 63:68  
Issues statement on environmental design, CE:Nov 63:49

#### (ASCE) Conferences

Atlanta Environmental Engineering Conference, Feb. 25-28: Program, CE:Jan 63:55; Feb 63:42; Apr 63:40  
Cincinnati Transportation Engineering Conference, Feb. 16-21, 1964, CE:Dec 63:42; Program, Dec 63:68  
Milwaukee Water Resources Conference, May 13-17: Program, CE:Feb 63:60; program, Mar 63:61; Mar 63:73; Apr 63:62; Jun 63:42  
San Francisco--Annual Meeting and Structural Engineering Conf., Oct. 7-11, 1963: CE:Jan 63:62; May 63:44; Jul 63:43; Aug 63:44; Program, Aug 63:64; Oct 63:62-72; Nov 63:42; Dec 63:77

#### (ASCE) Education

Committee on Engineering Education Sponsors Regional conference, CE:Jun 63:74

#### (ASCE) Ethics

An ethical violation results in expulsion, CE:Nov 63:76  
Board acts in two professional conduct cases, CE:Apr 63:68  
Board acts in professional conduct case, CE:Jul 63:64  
Code enforced in recent cases, CE:May 63:43  
The Great Brinkley "Expose," William H. Wisely, CE:Dec 62:31  
Dsc: Rex M. Whitton, J.W. Arch. Bollong, Walter S. Lacher, G.H. Willson, CE:Feb 63:57

#### (ASCE) Executive Secretary

For articles and editorials by, see Name Index, William H. Wisely

#### (ASCE) Fellowships and Scholarships

Freeman Fellowship won by Roger J.M. De Wiest, CE:Aug 63:44  
O.H. Ammann Research Fellowship established, CE:May 63:45  
Society awards and fellowships available, CE:Jan 63:65  
Thanks for an ASCE Student Chapter scholarship, dsc, Roy G. Elmhorst, CE:Aug 63:63

#### (ASCE) Honorary Members

CE: elects four new Honorary Members, CE:Jun 63:71; biographies, CE:Oct 63:66

#### (ASCE) Information Retrieval

Initiate information retrieval program, CE:Jan 63:28  
Sanitary Eng. Div.'s Committee on Instrumentation and Data Processing holds first meeting, CE:Jan 63:27

#### (ASCE) Insurance

Dependent coverage added to Life Insurance Plan, CE:Sep 63:42  
Dividend credits for life insurance plan, CE:May 63:45

#### (ASCE) Local Sections

Maine Section publicizes the profession, CE:Jan 63:27  
Metropolitan Section--sponsored seminar, "Who Pays for the Unexpected in Construction?", photo panel, CE:Jul 63:44  
New England Council meets April 27, CE:Apr 63:70  
New York State Council formed, CE:Oct 63:76  
Pacific Northwest Council held in Boise, Idaho, CE:Aug 63:76  
Pacific Southwest Conference set for Sacramento, CE:Jan 63:61  
Texas Section celebrates its 50th anniversary, CE:Dec 63:41

#### (ASCE) Membership

Certificate given to 50,000th member, CE:Jul 63:45

## CIVIL ENGINEERING • 1963

Professional Identification in ASCE, W.H. Wisely, CE:Apr 63:31  
Desc: C.L. Bogert, CE:Jun 63:68; S.G. Petersen, Jul 63:62; P.H. Perkins, Nov 63:73  
Reply, W.H. Wisely, Nov 63:73

**ASCE (Officers)**  
Eight officers installed at San Francisco Conference, CE:Oct 63:62

**(ASCE) Outstanding Civil Engineering Achievement Awards**  
Ohio River Basin Clean Streams Program wins 1963 award, others get honorable mention CE:Mar 63:42; Jul 63:53  
Seven projects nominated for 1963, CE:Jan 63:30

**(ASCE) Overseas Units**  
West Pakistan Overseas Unit completes first year, CE:May 63:63

**(ASCE) Policy**  
The ASCE Philosophy of Engineering Unity, CE:Jul 63:31  
Principles of a sound transportation policy, adopted by ASCE Board, CE:Jul 63:52

**(ASCE) Practice of Engineering**  
ASCE defends title of "Hydraulic Engineer", CE:Oct 63:74

**(ASCE) Presidents**  
Participation in 1963 Freedom Bond Drive urged by Edmund Friedman, CE:Mar 63:74  
Past President J.C. Stevens honored, CE:Sep 63:42  
President's inaugural address: Competence Is What Counts Most, Waldo G. Bowman, CE:Nov 63:35  
A Review of the Technical Divisions of ASCE, President's Annual Address, CE:Jun 63:52  
Waldo Bowman nominated, CE:Jun 63:48

**(ASCE) Professional Practice**  
Negotiating for Engineering Services--the Consulting Engineer's Viewpoint, N.P. Turner, Jr., CE:Mar 63:52  
Professional Practice of Surveying and Mapping Within Civil Engineering, report of ASCE Task Sub-committee, CE:Nov 63:56

**(ASCE) Public Affairs Forum**  
The Hour of Destiny for Engineering, N.D. Lea, CE:Nov 63:70

**(ASCE) Publications**  
Civil Engineering Reader Survey results, CE:Apr 63:68  
Doc on ASCE publications for emerging countries, Walter D. Seigfried, CE:Aug 63:62; James S. Blackman, Aug 63:62; where to send back copies, Aug 63:62  
Doc, CIVIL ENGINEERING Reader Survey questionnaire prompts careful reading, C.W. Ellis, CE:Jul 63:62  
Doc, "Opposition to new plan of digests for Transactions," A. Hrennikoff, CE:Sep 63:63  
Doc praising CIVIL ENGINEERING's Award of Merit, publication of abstracts, and other features, R.R. Schindler, CE:Feb 63:58  
Manual 42 supplement available, CE:Jul 63:45  
Manual, Report on Highway and Bridge Surveys, No. 44, available, CE:Mar 63:73  
Report of ASCE Research Conference in Skokie, Ill., available, CE:Mar 63:75  
Technical Division Newsletter editors in seminar, CE:Jun 63:75

**(ASCE) Public Relations**  
Five Civil Engineering Wonders featured in national magazines, CE:Jan 63:63  
The Great Brinkley "Expose," William H. Wisely, CE:Dec 62:31  
Doc: Rex M. Whitton, J.W. Arch. Bollong, Walter S. Lacher, G.H. Willson, CE:Feb 63:57  
Maine Section publicizes the profession, CE:Jan 63:27  
The Public Image of the Civil Engineer, William H. Wisely, CE:Feb 63:31  
Doc: A.W. Daniels, CE:Apr 63:61  
TV program to feature science and engineering, CE:Jan 63:27

**(ASCE) Research**  
Committee on, meets in United Engineering Center, CE:Feb 63:61

**Hydraulics Div.** Committee recommends research in urban hydrology, CE:Aug 63:74  
John Endicott is new ASCE Research Fellow, CE:Sep 63:68

Prizes to be presented at Atlanta, CE:Feb 63:40

Report of ASCE Research Conference in Skokie, Ill., available, CE:Mar 63:75  
Water Quality Research Council plans conference, CE:Jun 63:74

**(ASCE) Scholarships**  
See ASCE (Student Chapters)

**(ASCE) Staff**  
C.E. Lent, Jr. joins staff, CE:Jan 63:60  
Don Reynolds injured in bus plunge, CE:May 63:43  
Harold Larsen retires from headquarters staff, CE:Jun 63:72  
H.R. Hands, new ASCE Manager of Information, CE:Oct 63:76  
J.H. Fisk resigns from staff, CE:Jan 63:65  
Paul A. Parisi, new Manager of Technical Publications, CE:Jul 63:65  
R.K. Holmstrom, ASCE representative dies, CE:Jul 63:45  
W.D. French joins staff of Technical Publications, CE:Jul 63:45

**(ASCE) Student Chapters**  
C.M. Howard honored by Student Chapter, CE:Sep 63:69  
Doc, thanks for a Student scholarship, Roy G. Elmhorst, CE:Aug 63:63  
Outstanding Chapters commended by ASCE, CE:Sep 63:68  
St. Louis University Chapter installed, CE:Dec 63:78  
Scholarships awarded, CE:Jan 63:62; Sep 63:68

**(ASCE) Technical Divisions**  
Aero-Space Transport Div. Committee on Landing Area Facilities meet, CE:May 63:62  
Aero-Space Transport Div. Executive Committee meets, CE:Mar 63:75  
Aero-Space Transport Div. Conf. set for San Francisco in April 1964, CE:Dec 63:78  
City Planning Div. meets in St. Louis, CE:Dec 63:76

Engineering Mechanics Conf. in Urbana, Ill., April 22-23, 1963 Program, CE:Mar 63:43  
Hydraulics Div. Conf., Aug. 6-9, 1963, Program, CE:Jul 63:46; Oct 63:73  
Hydraulics Div. Task Force on Vibrations in Hydraulic Structures meets, CE:Jul 63:45

Irrigation and Drainage Div. Specialty Conf. in Los Angeles, Nov. 6-8; Program, CE:Sep 63:66; Dec 63:40

Pipeline Division Task Force issues report on pipeline practice questionnaire, Jack W. Pierce, Chairman, CE:Aug 63:34

A Review of the Technical Divisions of ASCE, President's Annual Address, Edmund Friedman, CE:Jun 63:52

Sanitary Engineering Div. Committee on Instrumentation and Data Processing meets, CE:Jan 63:27

Structural Div. Conf. on Electronic Computation, June 19-21, 1963, CE:Jan 63:65; Program, May 63:61; Aug 63:75

Structural Div. forms Committee on Plastics, CE:Aug 63:75

Waterways and Harbors Div. Committee on Regulation and Stabilization of Rivers meets, CE:Nov 63:49

Waterways and Harbors Div. Task Committee on Channel Stabilization Works meets, CE:Sep 63:68

**(ASCE) Unity of the Profession**

The ASCE Philosophy of Engineering Unity, statement adopted by Board of Direction, May 13-14, 1963, CE:Jul 63:31

Progress towards professional unity--by Board for Engineering Cooperation, CE:Mar 63:72

**(ASCE) What's Where in Civil Engineering**  
Kentucky and Tennessee, CE:Aug 63:42  
Philadelphia, Pittsburgh, and St. Louis Sections, CE:Mar 63:44; Wisconsin and Michigan Sections, CE:Apr 63:63

**ASPHALT**

Asphalt Institute's revised manual on pavement design ready, CE:Oct 63:88

New Hampshire--Flexible Pavement for Interstate Route, Daniel S. Bailey, Jr., CE:Jan 63:44

**ATOMIC ENERGY**

"Civil Engineering Bibliography on the Design and Construction of Nuclear Facilities" available, CE:Mar 63:75

New York--nuclear power plant to be built in N.Y. City area, CE:Feb 63:74

Non-Destructive Testing in Civil Engineering, C.W. Britzius, CE:Jan 63:21

Tennessee--Nuclear Information Center planned for Oak Ridge site, CE:Jul 63:77

**ATOMIC ENERGY, Power Plants**

Nuclear power plants, economics in design and construction--report of Committee for Construction of Nuclear Facilities of ASCE's Construction Division, CE:May 63:56

New York--Indian Point reactor in full operation, CE:Mar 63:91

**ATOMIC ENERGY**

See also Civil Defense, Shelters

**AWARDS AND PRIZES**

Civil Engineer wins New York Port Authority Award, CE:Aug 63:87

Fairless Medal goes to ex-president Eisenhower, CE:Aug 63:84

National Medal of Science, first award to Theodore von Karman, CE:Feb 63:41; receives award, CE:Apr 63:66

Doc: R. Schmidt, CE:Jun 63:68

Washington award to Philip Sporn, CE:Mar 63:75

See also ASCE (Awards and Prizes), ASCE (Research), Construction Industry (Moles)

**BEACHES**

Hawaii--New Land Worth \$23 Million for Honolulu, Robert M. Belt, CE:Sep 63:60

Recreational Uses of Hydroelectric Reservoirs, (symposium), CE:Aug 63:38

Structures for Shore Protection, Jay V. Hall, Jr., CE:Jul 63:38

**BEDAMS**

Design of Composite Beams for Highway Bridges, K. Ketchek, CE:Jul 63:60

**BLASTING**

Sweden--big underwater blast in frozen Fiord deepens channel, CE:Jul 63:78

**BOLTS**

Choosing the Best Structural Fastener, Henry J. Stetina, CE:Nov 63:50

**BREAKWATERS**

See Coastal Engineering

**BRICKS**

Waterproofing Exposed Masonry Walls, T.R.L. Lazarr, CE:Oct 63:40

**BRIDGES**

AISC honors beautiful steel bridges of 1962, CE:Dec 63:89

American Welding Society specifications for welded highway and railway bridges, La Motte Grover, CE:Dec 63:60

Book, "Bridges and Men," by Joseph Gies suggested for Xmas gift, CE:Dec 63:91

Canada and U.S.--Sault Ste. Marie International Bridge--Design and Construction, C.H. Gronquist, CE:May 63:31

Canada and U.S.--Sault Ste. Marie International Bridge opened, CE:Jan 63:75

Design of Composite Beams for Highway Bridges, K. Ketchek, CE:Jul 63:60

English Channel crossing by bridge-tunnel studied, CE:Sep 63:84

Holland--Pontoon derrick at work on Europe's longest bridge over Eastern Schelde River, CE:Oct 63:92

Hydraulic Design of Small Bridges, Alfred R. Pagan, CE:Jul 63:35

Manual facilitates orthotropic design of bridges, CE:May 63:73

Michigan--Highway Bridges with All-Steel Abutments, J.F. McDermott, CE:Feb 63:54

New York--Alexander Hamilton Bridge over the Harlem River opened, CE:Mar 63:88

Scoar at Bridge Piers (symposium): 1. Cause and Effect, Luigi Stabilini; CE:May 63:46; 2. Protection of Threatened Piers, C.J. Posey, CE:May 63:48

Dsc, C.R. Neill, CE:Aug 63:63; A.R. Archer, Nov 63:72  
Reply, L. Stabilini, CE:Aug 63:63

Virginia--Chesapeake Bay Bridge-Tunnel Project, (symposium) 1. Engineering Design, L.J. Sverdrup, CE:Dec 63:44; 2. Two Tunnels and Four Islands, Joseph Peralino, Dec 63:47; 3. Bridge and Trestle Construction, John W. Fowler, Dec 63:50

Virginia--Chesapeake Bay Bridge-Tunnel Survey, P.Z. Michener and E.O. Heaton, CE:Jun 63:54

Virginia--Chesapeake Bay crossing nears completion, CE:Nov 63:91

#### BRIDGES, CONCRETE

Australia--Gladesville Bridge nears completion in Sydney, CE:Jul 63:76

Texas--Hill County concrete bridge reinforced with high-strength steel bars, CE:Sep 63:83

Dsc: P.W. Clark, CE:Nov 63:72

#### BRIDGES, CONCRETE PRESTRESSED

Alaska--Precast and Prestressed Bridge at Schooners Bend Fails, Donald E. Halsted, CE:Aug 63:60

#### BRIDGES, FLOATING

Washington--Seattle Lake Washington floating bridge nears completion, CE:Aug 63:85; opened to traffic, Nov 63:92

#### BRIDGES, SUSPENSION

New York--cable spinning for The Narrows Bridge, CE:Mar 63:90; Oct 63:89

Portugal--construction starts on Tagus River Bridge, CE:Jun 63:81

#### BRIDGES, TIMBER

Maryland--Reconstructing a Covered Timber Bridge in Baltimore County, Albert S. Salkowski, CE:Oct 63:36

#### BRIDGES, TRUSS

Indiana--all-welded truss-type bridge to span the Ohio, CE:Aug 63:87

New York--Newburgh-Beacon Bridge across Hudson: steel erection, CE:Jan 63:76; bridge dedicated, Dec 63:90; correction, CE:Jan 64:73

Oregon--John Day Bridge under construction, CE:Jun 63:80

#### BUILDING CODES

New edition of ACI Building Code, CE:Oct 63:91

New York City Building Code to be rewritten, CE:Jan 63:73

Revised American Welding Society building code available, CE:Nov 63:94

#### BUILDINGS

California--Long Beach to have World Trade Center, CE:Aug 63:87

High-Rise Concrete Buildings, David Bloom, CE:Aug 63:57

Dsc: G.A. Kennedy, CE:Nov 63:72; W.H. Wheeler, Dec 63:68

Mexico--A New Project for Mexico City, Romeo Enriquez R. and Alejandro Pierro, CE:Jun 63:36

Corrections and additions, R. Enriquez R., Sep 63:64

New York--George Washington Bridge Bus Station opened, CE:Mar 63:88

New York World's Fair 1964-1965--Building Trends, William Whipple, Jr., CE:May 63:36

Dsc: L. Zetlin, CE:Aug 63:63

Pennsylvania--Westinghouse Telecomputer Center near Pittsburgh will make major use of aluminum, CE:Mar 63:91

Dsc: R.W. Meier, CE:Jun 63:69

Texas--Baytown Cracking Unit Strengthened for Wind Forces, Bennett W. Burns, CE:Dec 62:40

Dsc: L.H. Blakley, CE:Feb 63:58

Reply by author, CE:Mar 63:69

Tornados--Effect on Buildings, Frank E. Burkett, CE:Jan 63:51

Conn. Paul E. Pedersen, CE:Apr 63:61

U.S. Steel Corp. publishes "Building Design Data," CE:Dec 63:90

Yugoslavia--Skopje Earthquake Damage, Walter E. Kunze, Mark Fintel, and James E. Amrhein, CE:Dec 63:56

#### BUILDINGS, APARTMENTS

Illinois--Engineers as Real Estate Developers, Paul Rogers and George A. Kennedy, CE:Jun 63:33

New York--Apartment towers above office building, CE:Sep 63:81

#### BUILDINGS, AUDITORIUMS, COLISEUMS, STADIUMS

Canada--lightweight dome for Vancouver exhibition building, CE:Mar 63:89

Germany--Aluminum Pavilion at Hanover Fair wins International Award, CE:Jun 63:31

Missouri--St. Louis starts large stadium development, CE:Aug 63:87

N.Y.--Unique Display Problems Solved for GE's World's Fair Pavilion, Stanley A. Graves, CE:63:45

Pennsylvania--Dome-type structure to house William Penn Memorial, Harrisburg, CE:Sep 63:80

Virginia--VPI completes huge coliseum, CE:May 63:72

#### BUILDINGS, DOMES

Canada--lightweight dome for Vancouver exhibition building, CE:Mar 63:89

#### BUILDINGS, GARAGES

Illinois--Timber Piles Reused in Place for Chicago Garage, Eugene A. Dubin, CE:Jun 63:39

Texas--Parking Garage in Downtown Houston Extended, Arnoldo Longoria, CE:Mar 63:57

#### BUILDINGS, MOTELS

Minnesota--Minneapolis Motor Hotel receives PCI Merit Award, CE:Sep 63:82

#### BUILDINGS, MUSEUMS

Washington, D.C.--Smithsonian's Museum of History and Technology nears completion, CE:Oct 63:90

#### BUILDINGS, OFFICE

Calif. --San Francisco to have 43-story office tower, CE:Dec 63:89

Canada--Height Tripled for Toronto Building, J.L. Kellermann, CE:Mar 63:31

Illinois--Gateway Center building to rise over Chicago railroad tracks, CE:Mar 63:91

Maryland--Baltimore Builds Charles Center to Revitalize Downtown Area, E.S. Deakyne, CE:Aug 63:54

Massachusetts--prudent workman on Boston's Prudential Tower, CE:Aug 63:86

Michigan--Detroit's Automated Post Office, V.F. Leaub, CE:Mar 63:34

Dsc: J.W. Silliman, CE:Jun 63:69

New York--apartment towers above office building rise near UEC, CE:Sep 63:81

New York--giant steel column set in New York Chemical Bank-New York Trust, CE:Apr 63:81

New York--skyscraper to replace Grand Central Palace, CE:Jun 63:83

#### BUILDINGS, SCHOOLS

Illinois--new civil engineering building for University of Illinois, CE:Oct 63:90

#### BULKHEADS

See Coastal Engineering

#### BUREAU OF PUBLIC ROADS

See Highways

#### CAISSENS

New York--Pretest Tiebacks and Drilled-In Caissons for Retaining Wall in Syracuse, Robert E. White, CE:Apr 63:36

Dsc: O.C. Mann, praising article, CE:Jun 63:69

#### CANALS

California--work to start on San Luis Canal, CE:Jun 63:44; new contract let, Oct 63:89

New York--(Erie Canal) Engineering Clinton's Ditch, Albert C. Jensen, CE:Sep 63:48

New York--modernization of Barge Canal urged, CE:Sep 63:82

USSR--Volga-Baltic Canal to be replaced, CE:Dec 63:88

#### CAUSEWAYS

Virginia--Chesapeake Bay Bridge-Tunnel Project, (symposium): 1. Engineering Design, L.J. Sverdrup, CE:Dec 63:44; 2. Bridge and Trestle Construction, John W. Fowler, CE:Dec 63:50

#### CEMENT

New York--(Erie Canal) Engineering Clinton's Ditch, Albert C. Jensen, CE:Sep 63:48

#### CHIMNEYS

Tennessee--Bull Run steam plant to have highest chimney, CE:Apr 63:79

#### CITY PLANNING

New York--improvement plan for downtown Buffalo, CE:Jun 63:82

Ohio--urban renewal project begun in Cleveland, CE:Mar 63:89

Oregon--urban renewal project for Portland, CE:Feb 63:74

Pennsylvania--Pittsburgh announces design competition for public square, CE:Oct 63:89

Virginia--Satellite City, Reston, planned for Washington, D.C., area, CE:May 63:73

See also Urban Renewal

#### CIVIL DEFENSE

ASCE represented at Washington, D.C., Civil Defense hearing, CE:Jul 63:84

Fallout-Shelter Design Data Available Free, E.S. Plotkin, CE:Oct 63:54

Graduate institutes to offer courses on protective construction, CE:May 63:74

See also Shelters

#### COASTAL ENGINEERING

Hawaii--New Land Worth \$23 Million for Honolulu, Robert M. Belt, CE:Sep 63:80

Structures for Shore Protection, Jay V. Hall, Jr., CE:Jul 63:38

#### COATINGS

Metal-and -Paint Coatings for Long-Term Corrosion Resistance, A.P. Shepard, CE:Oct 63:50

#### CODES

See Building Codes

#### COFFERDAMS

Canada--Concrete Cutoff Wall Drilled Down 250 ft for Manicouagan 5 Dam, Quebec, I.V. Galbato, CE:Nov 63:59

Ohio--Meldahl Locks and Dam on the Ohio River, William F. McCraw, Jr., CE:Sep 63:56

#### COLLECTIVE BARGAINING

Returns from 1963 ASCE Employment Survey Reported, CE:Sep 63:40

#### COMPUTERS, ELECTRONIC

ASCE Structural Division Computation Conference at University of Colorado, June 19-21, 1963; Program-May 63:61; Aug 63:75

Computers Provide a Shortcut in Earthwork Estimates for Dam Design, Robert S. Gooch, CE:Oct 63:58

Two-Hinged Arches, Digital Computer Analysis and Design, Ira Hooper and P.C. Wang, CE:Dec 63:67

#### CONCRETE

American Concrete Institute's president Roger Corbetta installed, CE:Jun 63:81

Concrete for Marinas, E.P. Sellner, CE:Jul 63:48

High-Rise Concrete Buildings, David Bloom, CE:Aug 63:57

Dsc: G.A. Kennedy, CE:Nov 63:72; W.H. Wheeler, Dec 63:68

Installation Problems with Cast-in-Place Concrete Piles, Michael Praszker, CE:Mar 63:50

Maximum Size of Aggregate Affects Strength of Concrete, E.C. Higginson, G.B. Wallace, and E.L. Ore, CE:Nov 63:38

Two-year investigation at Ohio State University, CE:Feb 63:74

Vermiculite Insulating Concrete--Pumped and Sprayed, Clayford T. Grimm, CE:Nov 63:87

Yugoslavia--Skopje Earthquake Damage to Concrete Buildings, Walter E. Kunze, Mark Fintel, and James E. Amrhein, CE:Dec 63:56

#### CONCRETE, PRECAST and PRESTRESSED

Alaska--Precast and Prestressed Bridge at Schooners Bend Fails, Donald E. Halsted, CE:Aug 63:60

Oregon--Interceptor Sewer Built in Lake Oswego, William J. Dorner and Walter J. Bushnell, CE:Mar 63:54

#### CONCRETE, REINFORCED

Illinois--Engineers as Real Estate Developers, Paul Rogers and George A. Kennedy, CE:Jun 63:33

## CIVIL ENGINEERING • 1963

Reinforced Concrete Research Council elects officers, CE:Feb 63:42

### CONSTRUCTION

Russia--Construction Boom, James K. Carr, CE:Mar 63:39

### CONSTRUCTION EQUIPMENT

Australia--Machine Tunneling in Tasmania, Henry H. Thomas, CE:Mar 63:60  
New Hampshire--Flexible Pavement for Interstate Route, Daniel S. Bailey, Jr., CE:Jan 63:44  
Road Show, Chicago Features New Equipment, H.A. Radzikowski, CE:Feb 63:32  
Road Show, Chicago 1963, staff article, CE:Apr 63:32

### CONSTRUCTION INDUSTRY

Alaska in the throes of a building boom, CE:Oct 63:88  
Assoc. General Contractors of America intensifies safety program, CE:Jul 63:79  
AGC holds annual meeting in New York, CE:Apr 63:78  
Dac, Overseas jobs for U.S. construction personnel, George E. Fischer, CE:Jul 63:62  
Moles announce award winners, CE:Dec 63:89  
Moles Awards presented to ASCE members, CE:Mar 63:82  
Who Pays For The Unexpected In Construction?, (symposium) CE:Sep 63:37

### CONSTRUCTION, PROCEDURE

Adverse weather--Its Effect on Engineering Design and Construction, dry cold conditions Palmer W. Roberts, CE:May 63:50

### CONSTRUCTION VOLUME

Measured by construction spending: CE:Jan 63:72; Feb 63:72; Mar 63:91; May 63:74; Jun 63:83; Jul 63:80; Aug 63:85; Oct 63:89; Nov 63:92; Dec 63:90

### CONSULTING PRACTICE

Consulting Engineers Council holds seventh annual meeting, CE:Jul 63:78  
Consulting Engineers Council to publish directory of U.S. firms available for international assignments, CE:Nov 63:91  
Consulting Engineers Council vs. TVA on Dominican project, CE:Oct 63:91  
An Engineer Goes Abroad, Edmund B. Bessellievre, CE:Jan 63:17  
Dac: S. Prakash, CE:Jun 63:69  
European Common Market, E.E. Halmos, Jr., CE:Jan 63:24  
Exporting Consulting Engineering, K.L. Kollar, CE:Jul 63:58  
Negotiating for Engineering Services--the Consulting Engineer's Viewpoint, N.P. Turner, Jr., CE:Mar 63:52  
Protest to Secretary of Defense on engineer-architect work limitation, CE:Dec 63:78

### CORPS OF ENGINEERS

See U.S. CORPS OF ENGINEERS

### CORROSION

Metal-and-Paint Coatings for Long-Term Corrosion Resistance, A.P. Shepard, CE:Oct 63:50

### DAMS

ASCE-USCOLD Committee on Dam Design Criteria meets, CE:Jun 63:75; sends out questionnaires, Oct 63:74  
India--Nehru dedicates Bhakra Dam, CE:Dec 63:88  
Ohio--work begins on Scioto Conservancy District dams, CE:Nov 63:93  
Tennessee--TVA's Hales Bar Dam to be replaced, CE:Jun 63:83  
Texas--railroad relocation, first phase of Amistad Dam Project, CE:May 63:74  
See also Fishways  
What Comes Before Construction of a Dam?, Hugh B. Montgomery, CE:Apr 63:56

### DAMS, ARCH

Colorado--Bur. of Reclamation awards contract for Morrow Point Dam, CE:Jul 63:79  
International Symposium on the Theory of Arch Dams, CE:Sep 63:82

Iran--Des Dam dedicated, CE:Apr 63:80

### DAMS, CONCRETE

Alabama--contract awarded for Holt Lock and Dam, CE:Jul 63:79

Arizona--Glen Canyon Dam four-fifths completed, CE:Jan 63:74

Arizona--last concrete placed in Glen Canyon Dam, CE:Oct 63:89

California--ground is broken for American River Project, CE:Sep 63:84

Ohio--Meldahl Locks and Dam on the Ohio River, William F. McCraw, Jr., CE:Sep 63:56  
Venezuela--U.S. firm gets contract for Guri Dam, CE:Dec 63:92

Washington--Aluminum in Rocky Reach Dam, Robert M. Peters, CE:Jul 63:32  
Dac: J.H. Fetty, CE:Oct 63:61  
Rep. by Author: CE:Oct 63:61

### DAMS, EARTHFILL

California--contract awarded for San Luis Dam, CE:Feb 63:72

California--work begun on Oroville Dam, CE:Nov 63:93

Colombia, S.A.--International Credit for Andean Hydro, S.P. McCasland, CE:Jan 63:36

Colombia, S.A.--Placing Earth Fill for Troneras Dam, C.Y. Li, CE:Feb 63:37

Computers Provide a Shortcut in Earthwork Estimates for Dam Design, Robert S. Gooch, CE:Oct 63:58

Washington--Innovations at Wanapum Dam, U.V. Engstrom, CE:Oct 63:43

### DAMS, ROCKFILL

Oregon--Round Butte Dam fishways, CE:Jan 63:54

Philippines--contract awarded for Angat dam, CE:Apr 63:81

Syria--Rastan Dam, irrigation structure completed, CE:Jun 63:82

### DESIGN

Economic Advantages of Ultimate-Strength Design, Thomas W. Taylor, CE:Nov 63:65  
Two-Hinged Arches, Digital Computer Analysis and Design, Ira Hooper and P.C. Want, CE:Dec 63:67

### DRAINAGE

ASCE Irrigation and Drainage Division Specialty Conference in Los Angeles, Nov. 6-8: program, CE:Sep 63:66; Dec 63:40

New Machine Lays Plastic Drains, James L. Fouss, CE:Apr 63:58

### DRILLING

Canada--Concrete Cutoff Wall Drilled Down 250 ft for Manicouagan 5 Dam, Quebec, I.V. Galbiati, CE:Nov 63:59

### EARTHQUAKES

Chile--photogrammetry for Reconstruction and National Development, Staff of Proyecto Aero-photogrametrico CE:Jun 63:58

Third World Conference on Earthquake Engineering, to feature exhibits, CE:Nov 63:76

Yugoslavia--Skopje earthquake damage studied by American Iron and Steel Inst., CE:Oct 63:83

Yugoslavia--Skopje Earthquake Damage, Walter E. Kunze, Mark Fintel, and James E. Amrhein, CE:Dec 63:56

### EARTHWORK

Computers Provide a Shortcut in Earthwork Estimates for Dam Design, Robert S. Gooch, CE:Oct 63:58

### ECONOMICS

Buy American turbines, CE:Apr 63:81

European Common Market, E.E. Halmos, Jr., CE:Jan 63:24

### EDUCATION

ASEE holds annual meeting in Philadelphia, CE:Aug 63:43

Civil Engineering Education--Some Vital Issues, G. Brooks Earnest, CE:Feb 63:52

Dac: C.C. Johnston, CE:Apr 63:61; C.R.

Civil Engineering Education... What Educators and Employers Think, Chester A. Moore, CE:Dec 63:64

Dac on ASCE publications for universities in emerging countries; where to send copies, CE:Aug 63:62

Dac requesting engineering problems, Newman A. Hall, CE:Jun 63:69

EJC report deplores high student attrition, CE:Jun 63:72

EJC studies salaries of engineering teachers, CE:Aug 63:75

EUSEC "Report on Education and Training of Professional Engineers" available through ASCE, CE:Dec 63:76

For Planning Engineers--Big Opportunities Ahead, C.E. Perkins, CE:Oct 63:48

Frederic J. Frisbie appointed executive director of Junior Engineering Technical Society, Inc., CE:Nov 63:76

Freshman engineering enrollments drop, CE:Jun 63:61

MIT has alumni center in United Engineering Center, CE:Nov 63:49

Michigan State University has new engineering building, CE:Feb 63:72

Princeton Program Prepares Engineers for Policy-Making Positions, David P. Billington and Norman J. Sollenberger, CE:Apr 63:48

Correction by authors, CE:Jun 63:69

Summer institutes on protective construction, CE:Feb 63:71

U.S. has largest number of educational exchanges, CE:Aug 63:85

### EMPLOYMENT

Returns from 1963 ASCE Employment Survey Reported, CE:Sep 63:40

### ENGINEERING FOUNDATION

Gets \$250,000 endowment, CE:Mar 63:75

Officers elected, CE:Jul 63:44

Urban Transportation Research Conference to be held at Andover, N.H., CE:Jul 63:65

### ENGINEERING SOCIETIES LIBRARY

Reports on first year in United Engineering Center, CE:Feb 63:61

Use of is growing, CE:Jan 63:65

### ENGINEERS AND ENGINEERING

Dac on summer in the Scandinavian countries, Harold T. Larsen, CE:Sep 63:63

Dac on importance of naming the engineers in descriptive articles, Lev Zetlin, CE:Aug 63:63

An Engineer Goes Abroad, Edmund B. Bessellievre, CE:Dec 63:17

An Indoctrination Ritual for Engineers, W.H. Wisely, CE:Aug 63:33

Dac: H.L. Johnson, E.F. Baspalow, E.V. Hunt, T.C. Kenney, L.W. Crump, R.D. Henderson, CE:Oct 63:60

### ENGINEERS IN PUBLIC LIFE

ASCE member, Edgar Foreman, in U.S. Congress, CE:Apr 63:79

Princeton Program Prepares Engineers for Policy-Making Positions, David P. Billington and Norman J. Sollenberger, CE:Apr 63:48

Correction by authors, CE:Jun 63:69

### ENGINEERS JOINT COUNCIL

Aids in forming National Engineering Academy, CE:Jun 63:75

Engineering Salaries Up 60 Percent in Ten Years--EJC Survey, Carl Frey, CE:May 63:42

Issues directory of engineering societies, CE:Nov 63:76

Officers installed at annual meeting, CE:Feb 63:61

Report deplores high student attrition, CE:Jun 63:72

Reports need for more graduate fellowships, CE:Apr 63:66

Sponsors abstracting, indexing training course, CE:Aug 63:44

Studies salaries of engineering teachers, CE:Aug 63:75

Survey by Engineering Manpower Commission shows drop in freshmen enrollment, CE:Jan 63:61

Surveys demand for engineering manpower, CE:Dec 63:42

### ENVIRONMENTAL ENGINEERING

Adverse Weather--Its Effect on Engineering Design and Construction, dry cold conditions, Palmer W. Roberts, CE:May 63:50

ASCE Board of Direction issues statement on environmental design, CE:Nov 63:49

ASCE collaborates in forming interprofessional commission on environmental design, CE:Nov 63:76

Environmental Engineering Conference, Atlanta, Feb. 25-28: Program, CE:Jan 63:55; Feb 63:42; Apr 63:40

### ETHICS

Corporate practice in NCSBEE Model Law, CE:May 63:45

See also, ASCE (Ethics, Code of)

#### EVAPORATION

California--Evaporation from a Covered Reservoir at Stanford University, Joseph B. Franzini and David W. Hill, CE:May 63:35

#### FAIRS AND EXPOSITIONS

Germany--Aluminum Pavilion at Hanover Fair wins international award, CE:Jun 63:81  
New York--GE's World's Fair Pavilion Solves Display Problems, Stanley A. Graves, CE:Aug 63:45  
New York--monorail for New York World's Fair, CE:Jun 63:84; Sep 63:81  
New York Port Authority Fair building, contract let, CE:Jan 63:74  
New York--roads to New York's World Fair, staff article, CE:Nov 62:32  
Disc: Wm. M. Sheehan, CE:Jan 63:53  
New York--Roof raised at New York State's Fair Pavilion, CE:Dec 63:91  
New York--U.S. pavilion at World's Fair features unique design, CE:Mar 63:89; topped out, Oct 63:90  
New York--World's Fair 1964-1965, Building Trends, William Whipple, Jr., CE:May 63:36  
Disc: L. Zetlin, CE:Aug 63:63

#### FELLOWSHIPS AND SCHOLARSHIPS

EJC reports need for more graduate fellowships, CE:Apr 63:66  
World Health Organization offers short-term traveling fellowships, CE:Dec 63:88

#### FERRIES

Delaware--Delaware Bay ferry service planned, CE:Aug 63:87

#### FILLS

Tennessee--Failure of a Side-Hill Highway Fill, William H. Rowan, Thomas R. Pierce, and Roger Webb, CE:May 63:40

#### FINANCING

Colombia, S.A.--International Credit for Andean Hydro, S.P. McCasland, CE:Jan 63:36

#### FIRE PROTECTION

Fire Protection for Aluminum Alloy Structural Shapes, J.G. Kaufman and R.C. Kasser, CE:Mar 63:46

#### FISHWAYS

Oregon--Round Butte Dam fishways, CE:Jan 63:54

#### FLOOD CONTROL

Iowa--Flood-Plain Zoning Ordinance Adopted by Iowa City, J.W. Howe, CE:Apr 63:39  
Disc: E.B. Mansur, CE:Jun 63:68

#### FORECASTS

1964 Previews, Frank Schneller, CE:Dec 63:32

#### FOREIGN ENGINEERING

Australia--Machine Tunneling in Tasmania, Henry H. Thomas, CE:Mar 63:80

Chile--Photogrammetry for Reconstruction and National Development, Staff of Proyecto Aerofotogrametrico, CE:Jun 63:58

Colombia, S.A.--International Credit for Andean Hydro, S.P. McCasland, CE:Jan 63:36

Colombia, S.A.--Placing Earth Fill for Troneras Dam, C.Y. Li, CE:Feb 63:37

Disc, Overseas jobs for U.S. construction personnel, George E. Fischer, CE:Jul 63:62

Egypt--underwater viewing proposed for Abu Simbel, CE:May 63:73

Egypt--U.S. supports plan to preserve Abu Simbel, CE:Aug 63:86

An Engineer Goes Abroad, Edmund B. Bessellievre, CE:Jan 63:17

Disc: S. Prakash, CE:Jun 63:69

The European Common Market, E.E. Halmos, Jr., CE:Jan 63:24

Exporting Consulting Engineering, K.L. Kollar, CE:Jul 63:58

Germany--Utilities for the Divided City of Berlin, Gustav J. Regardt, CE:Jan 63:46

Holland--Pontoon derrick at work on Europe's longest bridge over Eastern Schelde River, CE:Oct 63:92

India--Nehr dedicates Bhakra Dam, CE:Dec 63:88

India's largest power plant taking shape, CE:Jul 63:80

#### INTERNATIONAL RELATIONSHIPS IN ENGINEERING

William H. Wisely, CE:Jun 63:31  
Disc: C.H.D. Harper, CE:Sep 63:63; Ramiro Parada, Oct 63:80; R.E. Coughlin, Nov 63:73  
Italy to start work on three expressways, CE:Sep 63:83

Mexico--A New Development Project for Mexico City, Romeo Enríquez R. and Alejandro Fierro, CE:Jun 63:36  
Disc: R. Enríquez R., CE:Sep 63:64

Ninth Highway Congress follows tour of Inter-American Highway, CE:Jul 63:77  
Nylon Used in Hydraulic Engineering, J.P.A. Van Lookeren Campagne, CE:Jan 63:31

Thailand starts big road program, CE:May 63:74

USSR--Construction Boom, James K. Carr, CE:Mar 63:38

USSR--Das by Robert Schumacher on engineering interest in a Moscow street scene, CE:Mar 63:70  
USSR--Volga-Baltic Canal to be replaced, CE:Dec 63:88

See also Consulting Practice

#### FOUNDATIONS

Installation Problems with Cast-in-Place Concrete Piles, Michael Prassler, CE:Mar 63:50  
Illinois--Timber Piles Reused in Place for Chicago Garage, Eugene A. Dubin, CE:Jun 63:39

Mexico--A New Development Project for Mexico City, Romeo Enríquez R. and Alejandro Fierro, CE:Jun 63:36  
Disc: R. Enríquez R., CE:Sep 63:64

New York--Protest Tiebacks and Drilled-In Caissons for Retaining Wall in Syracuse, Robert E. White, CE:Apr 63:36

Disc: O.C. Mann, praising article, CE:Jun 63:69

Non-Destructive Testing in Civil Engineering, C.W. Britzius, CE:Jan 63:21  
Pile Spacing for Retaining-Wall Foundations, K.R. Patel, CE:Dec 63:43

Spencer, Rodio & Soletanche, Inc., will specialize in foundations, CE:Sep 63:81

See also Soil Mechanics

#### GEOLOGY

International Conference on State of Stress in the Earth's Crust will be held in California, CE:Mar 63:90

#### GROUND WATER

Symposium on transient ground water held at Colorado State University, July 25-27, CE:Sep 63:80

#### HEALTH

U.S. Public Health Service develops examinations for radiological health specialists, CE:May 63:74

#### HELICOPTERS

Large helicopter for commercial use, CE:Feb 63:70

#### HIGHWAY RESEARCH BOARD

See Highways

#### HIGHWAYS

Bureau of Public Roads initiates research and development program, CE:Feb 63:72

California--Paving Interstate 80 in the Sierra Nevada, Alan S. Hart, CE:Nov 63:62  
Construction costs in second quarter, CE:Sep 63:81

Disc, Leon E. Venegas, CE:Sep 63:64, re comments in Byline Washington on Inter-American Highway in Costa Rica, CE:Apr 63:76

Highway Research Board holds annual meeting, CE:Feb 63:70

Italy to start work on three expressways, CE:Sep 63:83

New Hampshire--Flexible Pavement for Interstate Route, Daniel S. Bailey, Jr., CE:Jan 63:44  
New York--roads to New York's World Fair, CE:Nov 62:32

Disc: Wm. M. Sheehan, CE:Jan 63:53

Ninth Highway Congress follows tour of Inter-American Highway, CE:Jul 63:77  
Numbering system for Interstate Highway, CE:Aug 63:86

Pennsylvania automates its highway map reading, CE:Dec 63:90  
Rail Transit in the Highway Median--Yes or No?, Joseph Barnett, CE:Jan 63:34

#### Road Show Features New Equipment, H.A. Radzikowski, CE:Feb 63:32

Road show, Chicago 1963, staff article, CE:Apr 63:32

South Dakota--Lime Stabilizes Shallow Subgrade on Interstate Highway, Richard O. Berg and Charles A. Piper, Jr., CE:Sep 63:35

Tennessee--Failure of a Side-Hill Highway Fill, William H. Rowan, Thomas R. Pierce, and Roger Webb, CE:May 63:40

Texas--tire-proving ground to parallel Pan American Highway, CE:May 63:75

See also Pavements

#### HIGHWAYS, COSTS

Highway building costs rise in third quarter, CE:Dec 63:91

#### HIGHWAYS, SIGNS AND SIGNALS

Drive for uniform road signs progressing, CE:Nov 63:93

#### HISTORY OF ENGINEERING

Maryland--Reconstructing a Covered Timber Bridge in Baltimore County, Albert S. Salkowski, CE:Oct 63:36  
New York--(Erie Canal) Engineering Clinton's Ditch, Albert C. Jensen, CE:Sep 63:48

#### HOUSING

High-Rise Concrete Buildings, David Bloom, CE:Aug 63:57

Disc, Walter H. Wheeler, CE:Dec 63:68

#### HYDRAULICS

ASCE defends title of "Hydraulic Engineer," CE:Oct 63:74

Disc on the need for a uniform nomenclature in hydraulics, Clifford A. Betts, CE:Sep 63:65

Experimental Apparatus Studies Sediment Transport in Closed Conduits, H.A. Einstein and W.H. Graf, CE:Oct 63:52

Films offered by National Science Foundation, CE:Jan 63:74

Hydraulic Design of Small Bridges, Alfred R. Pagan, CE:Jul 63:35

Manning's Formula for Wide Trapezoidal Channels, C.J. Posey and S.N. Pagay, CE:Mar 63:71

Nylon Used in Hydraulic Engineering, J.P.A. Van Lookeren Campagne, CE:Jan 63:31

Scour at Bridge Piers (symposium): I. Cause and Effect, Luigi Stabilini, CE:May 63:46;

2. Protection of Piers, C.J. Posey, May 63:48  
Disc: C.R. Neill, CE:Aug 63:63; A.R. Archer, Nov 63:72

Reply, L. Stabilini, CE:Aug 63:63

Symposium on transient ground water held at Colorado State University, July 25-27, CE:Sep 63:80

Twelfth ASCE Hydraulics Division Conf., Aug. 6-9, '63, CE:Oct 63:73

#### HYDROLOGY

ASCE Hydraulics Div. Committee recommends research in urban hydrology, CE:Aug 63:74

California--A Moving Boatline for River Flow Measurement at Sacramento, F.C. Craig and Winchell Smith, CE:Sep 63:43

#### INCINERATION

Pennsylvania--Incinerator Program for Delaware County, R.J. Mitchell, CE:Jun 63:64

Disc: P. Geertson, CE:Sep 63:64

#### INFORMATION RETRIEVAL

EJC sponsors abstracting, indexing training course, CE:Aug 63:44

The Hour of Destiny for Engineering, N.D. Lea, CE:Nov 63:70

See also ASCE (Information Retrieval)

#### INSULATION

Vermiculite Insulating Concrete--Pumped and Sprayed, Clayford T. Grimm, CE:Nov 63:67

#### IRRIGATION

ASCE Irrigation and Drainage Division Specialty Conference in Los Angeles, Nov. 6-8: program, CE:Sep 63:66; Dec 63:40

Contract awarded for The Dales Project distribution system, CE:Nov 63:90

#### JOINTS

Waterproofing Exposed Masonry Walls,

T.R.L. Lazarr, CE:Oct 63:40

**LAND RECLAMATION**

Hawaii--New Land Worth \$23 Million for Honolulu, Robert M. Belt, CE:Sep 63:60

**LAW**

Walter E. Jessup, former editor of CIVIL ENGINEERING co-authors book, "Law and Specifications for Engineers and Scientists," CE:Nov 63:92  
Who Pays for The Unexpected in Construction?, CE:Sep 63:37

**LANDFILL**

Hawaii--New Land Worth \$23 Million for Honolulu, Robert M. Belt, CE:Sep 63:60

**LIBRARIES**

ASCE publications needed in university libraries in emerging countries; where to send back copies, desc., CE:Aug 63:62  
See also Engineering Societies Library

**LOCKS**

Canada to build twin Welland Canal Locks, CE:Sep 63:81  
Ohio--Meldahl Locks and Dam on the Ohio River, William F. McCraw, Jr., CE:Sep 63:56  
West Virginia--contract awarded for Ohio River Locks, CE:Jun 63:83

**MAINTENANCE**

Waterproofing Exposed Masonry Walls, T.R.L. Lazarr, CE:Oct 63:40

**MANPOWER**

See Engineers' Joint Council

**MARINAS**

Recreational uses of hydroelectric reservoirs (symposium), CE:Aug 63:38  
Concrete for Marinas, E.P. Selner, CE:Jul 63:48

**MASONRY**

Waterproofing Exposed Masonry Walls, T.R.L. Lazarr, CE:Oct 63:40

**MATERIALS OF CONSTRUCTION**

Nylon Used in Hydraulic Engineering, J.P.A. Van Lookeren Campagne, CE:Jan 63:31

**MATERIALS TESTING**

Civil engineering advances reported at ASTM meeting, CE:Aug 63:84  
Non-Destructive Testing in Civil Engineering, C.W. Brizius, CE:Jan 63:21

**MECHANICS**

ASCE Engineering Mechanics Division Conference in Urbana, Ill., program, CE:Mar 63:43

**METEOROLOGY**

California--Moving Boatline for River Flow Measurement at Sacramento, F.C. Craig and Winchell Smith, CE:Sep 63:43

**METRIC SYSTEM**

American Society for Testing and Materials will use metric system in its standards, CE:Mar 63:88

**MILITARY ENGINEERING**

See U.S. Air Force, U.S. Government

**MISSILES**

Wyoming--contract let for Cheyenne launching sites, CE:Jan 63:76

**MONORAIL**

New York--monorail for New York World's Fair, CE:Jun 63:84; Sep 63:81

**NATIONAL ACADEMY OF ENGINEERING**

EJC aids in forming National Engineering Academy, CE:Jun 63:75

**NYLON**

Nylon Used in Hydraulic Engineering, J.P.A. Van Lookeren Campagne, CE:Jan 63:31

**OFFSHORE STRUCTURES**

Venezuela--Long Concrete Cylinder Piles for Platform in Lake Maracaibo, Gerald A. O'Connor, CE:Apr 63:50

**PAVEMENT**

California--Paving Interstate 80 in the Sierra Nevada, Alan S. Hart, CE:Nov 63:62

Disc on relative merits of "blacktop" and concrete pavement, H.S. Fowler, CE:Now 63:72  
New Hampshire--Flexible Pavement for Interstate Route, Daniel S. Bailey, Jr., CE:Jan 63:44  
South Dakota--Lime Stabilizes Shale Subgrade on Interstate Highway, Richard O. Berg and Charles A. Piper, Jr., CE:Sep 63:35

**PEACE CORPS, U.S.**

New opportunities in the Peace Corps, with postcard, CE:May 63:64  
A Retired Engineer in the Peace Corps, (Ralph Cole), Philip D. Hardberger CE:Nov 63:54

**PHOTOGRAMMETRY**

Chile--photogrammetry for Reconstruction and National Development, Staff of Proyecto Aerofotogrametrico, CE:Jun 63:58  
Photogrammetry to Locate Water, A.O. Quinn, CE:Aug 63:50

**PIERS, BRIDGE**

Scour at Bridge Piers: 1. Cause and Effect, Luigi Stabili, CE:May 63:46; 2. Protection of Threatened Piers, C.J. Posey, May 63:48  
Disc. C.R. Neill, CE:Aug 63:63; A.R. Archer, Nov 63:72  
Reply, L. Stabili, CE:Aug 63:33

**PILES**

Installation Problems with Cast-in-Place Concrete Piles, Michael Praszker, CE:Mar 63:50

Illinois--Timber Piles Reused in Place for Chicago Garage, Eugene A. Dubin, CE:Jun 63:39  
Michigan--Highway Bridges with All-Steel Abutments, J.F. McDermott, CE:Feb 63:54  
Pile Spacing for Retaining-Wall Foundations, K.R. Patel, CE:Dec 63:43  
Venezuela--Long Concrete Cylinder Piles for Platform in Lake Maracaibo, Gerald A. O'Connor, CE:Apr 63:50

**PIPES AND PIPELINES**

ASCE Pipeline Division Task Force issues report on pipeline practice, Jack W. Pierce, Chairman, CE:Aug 63:34

California--Cleaning and Lining 6-in. Pipeline in Mesa Verde National Park, John H. Baker, CE:Apr 63:46

Illinois--Massive Cooling-Water Discharge Pipeline for Coffeen Power Station, CE:Nov 63:93

Oklahoma--100-mile Pipeline Brings Water to Oklahoma City, Herman E. Smith and Lee B. Washbourne, CE:Oct 63:32

**PLANNING**

For Planning Engineers--Big Opportunities Ahead, C.E. Perkins, CE:Oct 63:48

**PLASTICS**

Committee on Plastics formed by ASCE Structural Division, CE:Aug 63:75  
New Machine Lays Plastic Drains, James L. Fouss, CE:Apr 63:58

**PORTS AND MARITIME STRUCTURES**

New York--face-lift for city's waterfront, CE:Jun 63:82

Venezuela--Long Concrete Cylinder Piles for Platform in Lake Maracaibo, Gerald A. O'Connor, CE:Apr 63:50

**POWER**

American Power Conference's Silver Anniversary, CE:Feb 63:42

Brazil--power resources to be surveyed, CE:Jan 63:73

California--contract let for work on American River Project, CE:Jun 63:82

Colorado--contract let for control center for Colorado River Power, CE:Sep 63:82  
India's largest power plant taking shape, CE:Jul 63:80

Missouri--Taum Sauk Pumped Storage Power Project, E.A. Rudolph, CE:Jan 63:40  
Papers for World Power Conference, Lausanne, Switzerland, invited, CE:Jul 63:44

TVA studies sites for pumped-storage power, CE:Oct 63:90  
Transactions of Sixth Plenary Meeting of World Power Conference, in Melbourne, available, CE:Jul 63:65

USSR--Construction Boom, James K. Carr, CE:Mar 63:39

See also Atomic Energy, Transmission Lines

**POWER, HYDROELECTRIC**

Colombia, S.A.--International Credit for Andean Hydro, S.P. McCasland, CE:Jan 63:36  
Missouri--Taum Sauk Pumped Storage Power Project, E.A. Rudolph, CE:Jan 63:40

Recreational Uses of Hydroelectric Reservoirs, (symposium), CE:Aug 63:39

Utah--President Kennedy starts generator at Flaming Gorge powerplant, CE:Nov 63:92

Washington--Aluminum in Rocky Reach Dam, Robert M. Peters, CE:Jul 63:32

Disc. J.H. Fetty, CE:Oct 63:61

Rep. by Author: CE:Oct 63:61

Washington--Innovations at Wanapum Dam, U.V. Engstrom, CE:Oct 63:43

**POWER, THERMAL**

California--addition to Edison's Alamitos power station, CE:Sep 63:83

Ohio--investor-owned plant proposed, CE:Jan 63:75

Okinawa--diesel-driven packaged generating units ordered for, CE:Nov 63:81

Wisconsin--Madison steam plant cited for architectural excellence, CE:Sep 63:83

**PRACTICE OF ENGINEERING**

A Blueprint for the Profession, Raymond J. Stith, CE:Dec 62:52

Disc. G.R. Berry, CE:Feb 63:57; H.A. Hagestad, CE:Feb 63:57; V.A. Wienski, CE:Feb 63:57; R.R. Schindler, CE:Feb 63:58

A Formidable Challenge--Will Engineers Maintain Their Place as Professionals in the Space Age?, A.M. Minton, CE:May 63:55

**PROFESSIONAL ADVANCEMENT**

ASCE President's inaugural address: Competence Is What Counts Most, Waldo G. Bowman, CE:Nov 63:35

Disc. on achieving professionalism, in response to "Younger Viewpoint" invitation, Earl Rogers, CE:Oct 63:59

The Hour of Destiny for Engineering, N.D. Lea, CE:Nov 63:70

An Indoctrination Ritual for Engineers, W.H. Wisely, CE:Aug 63:33

Discs. H.L. Johnson, E.F. Bespalow, E.V. Hunt, T.C. Kenney, L.W. Crump, R.D. Henderson, CE:Oct 63:60

Professional Identification in ASCE, CE:Apr 63:31

Disc. C.L. Bogert, CE:Jun 63:68; S.G. Petersen, Jul 63:62; P.H. Perkins, Nov 63:73

Reply, W.H. Wisely, Nov 63:73

The Public Image of the Civil Engineer, CE:Feb 63:31

Disc. A.W. Daniels, CE:Apr 63:61

Public Recognition--A Measure of the Civil Engineer's Success, Don M. Corbett, CE:Apr 63:55

The Rise and Fall of Professional Engineering, C. Ken Weidner, CE:Jan 63:49

Disc. J.M. Abernathy, CE:Mar 63:70

**PUBLIC WORKS**

Public Works Week set for September, CE:Aug 63:84

**PUMPED STORAGE**

Missouri--Taum Sauk Pumped Storage Power Project, E.A. Rudolph, CE:Jan 63:40

**PUZZLES AND PROBLEMS**

Exam Gems by R. Robinson Rowe, in each issue

**RAILROADS**

B. & O. completes tunnel improvement program, CE:Dec 63:88

California--Tunnel Driving for Relocation of Railroad Above Oroville Dam, Harold E. Russell, CE:Feb 63:43

Disc. CE:Sep 63:64, "Do You Know That?", item on Japanese train, E.A. Abdun-Nur, CE:Jul 63:29

**RAPID TRANSIT**

California--contract for research on Bay Area transit project, CE:Oct 63:91

California--court dismisses Bay area transit suit, CE:Jul 63:79

California--engineers chosen for San Francisco Bay Area project, CE:Jan 63:75

California--work delayed on San Francisco system, CE:Apr 63:80

Rail Transit in the Highway Median--Yes or No?, Joseph Barnett, CE:Jan 63:34  
Westinghouse proposed trial system for Pittsburgh, CE:Jan 63:73

**RECREATION**

Recreational Uses of Hydroelectric Reservoirs, (symposium), CE:Aug 63:38  
See also Marinas

**REGISTRATION**

Corporate practice in NCSBEE Model Law, CE:May 63:45

**REGISTRATION OF ENGINEERS**

Committee formed to uphold registration laws, CE:May 63:62

**RESEARCH**

Canada--Ontario Research Community started, CE:Mar 63:92  
Colorado--Engineering Research Center for Denver, CE:Apr 63:79  
Disc by P. J. Lehman on availability of his paper on dimensional analysis, CE:Mar 63:70  
Engineering Foundation research conference, CE:May 63:45  
O.H. Ammann Research Fellowship established, CE:May 63:45

**RESERVOIRS**

California--Evaporation from a Covered Reservoir at Stanford University, Joseph B. Franzini and David W. Hill, CE:May 63:35  
Recreational Uses of Hydroelectric Reservoirs, (symposium), CE:Aug 63:39

**RETAINING WALLS**

Pile Spacing for Retaining-Wall Foundations, K.R. Patel, CE:Dec 63:43

**REVERTMENT**

Nylon Used in Hydraulic Engineering, J.P.A. Van Lookeren Campagne, CE:Jan 63:31

**RIVERS**

Colorado River--USBR reports on reducing salinity, CE:May 63:72  
Columbia River pact between U.S. and Canada advanced, CE:Aug 63:88  
Committee on Regulation and Stabilization of Rivers of ASCE Waterways and Harbors Div. meets, CE:Nov 63:49  
Texas--big Trinity River project recommended, CE:May 63:72

**RIVETS**

Choosing The Best Structural Fastener, Henry J. Stetina, CE:Nov 63:50

**ROOFS**

New York--Roof raised at New York State's Fair pavilion, CE:Dec 63:91

**SAFETY**

Assoc. General Contractors of America intensifies safety program, CE:Jul 63:78

**SALARIES AND FEES**

EJC studies salaries of engineering teachers, CE:Aug 63:75  
Engineering Salaries Up 60 Percent in Ten Years--EJC Survey, Carl Frey, CE:May 63:42

**SANITARY ENGINEERING**

American Sanitary Engineering Intersociety Board Annual Meeting, CE:Feb 63:41  
American Sanitary Engineering Intersociety Board to give examinations, CE:Mar 63:74  
Committee on Instrumentation and Data Processing of ASCE Sanitary Engineering Division meets, CE:Jan 63:27

Indiana--Richmond Sewer Extension Promotes Municipal Growth, William Edwin Ross and George Organian, CE:Mar 63:48

Disc: R. R. Bradshaw, unsafe condition pictured in article, CE:Jun 63:69

Oregon--Interceptor Sewer Built in Lake Oswego, William J. Dorner and Walter J. Bushnell, CE:Mar 63:54

Pennsylvania--Incinerator Program for Delaware County, R.J. Mitchell, CE:Jun 63:64

Disc: P. Geertson, CE:Sep 63:64  
Proposed removal of Water Pollution Control Program from PHS, in Byline Washington, CE:Jul 63:75

Disc: C.H. Atkins, CE:Sep 63:65; D.H. Howells, CE:Sep 63:65, Leo Weaver, CE:Sep 63:65

Rep, E. E. Halmos, CE:Sep 63:65  
We Need More Municipal Waste Treatment Works, David H. Howells, CE:Sep 63:54  
Wisconsin--Activated Sludge Plant for Milwaukee, Ray D. Leary and L. R. Howson, CE:Sep 63:44  
Wisconsin--100 mgd Added to Milwaukee's Water Supply, H. M. Ihling and D.P. Proudfit, CE:Sep 63:31  
See also Air Pollution, Water Pollution

**SCHOLARSHIPS AND FELLOWSHIPS**

Freeman Scholarship offered by Boston Society of Civil Engineers, CE:Mar 63:90

**SEDIMENTATION**

Experimental Apparatus Studies Sediment Transport in Closed Conduits, H.A. Einstein and W.H. Graf, CE:Oct 63:52  
Federal Interagency Sedimentation Conference to be held in January, CE:Jan 63:72

**SEWAGE TREATMENT**

Detergent foam subject of joint study, CE:Apr 63:81

Wisconsin--Activated Sludge Plant for Milwaukee, Ray D. Leary and L.R. Howson, CE:Sep 63:44

Disc: C. E. Keefer, CE:Nov 63:73

**SEWERS**

Indiana--Richmond Sewer Extension Promotes Municipal Growth, William Edwin Ross and George Organian, CE:Mar 63:48

Disc: R.R. Bradshaw, unsafe condition pictured in article, CE:Jun 63:69

Minnesota--Storm Sewer Tunnel in St. Paul, John W. Bird, CE:Sep 63:51

Oregon--Interceptor Sewer Built in Lake Oswego, William J. Dorner and Walter J. Bushnell, CE:Mar 63:54

Pennsylvania--Philadelphia completes large storm relief sewer, CE:Jan 63:75

**SHAFTS**

Colorado--at NORAD Combat Operations Center--New Techniques for Backfilling Shafts, J.D. Davenport and J.C. King, CE:Oct 63:55

Minnesota--Storm Sewer Tunnel in St. Paul, John W. Bird, CE:Sep 63:51

New York--Freezing Aids Shaft Sinking for Tunnel under New York Harbor, George C. Stewart, William D. Gildersleeve, Stanley Jampole, and John E. Connolly, CE:Apr 63:52

**SHELLS, THIN**

Proceedings from World Conference on Shell Structures ready soon, CE:Mar 63:74

**SHELTERS**

Disc, recommending trained management for fallout shelters, Frederick Wilsea, CE:Oct 63:61

Engineers qualified for fallout shelter analysis, CE:May 63:64

Firm to develop computer program for shelter plan, CE:May 63:73

Free Fallout-Shelter Design Data, E.S. Plotkin, CE:Oct 63:54

Guides on shelter construction available from Office of Civil Defense, CE:Jan 63:74

Summer institutes on protective construction, CE:Feb 63:71

Virginia--Protective Structures Development Center, Office of Civil Defense, Fort Belvoir, dedicated, CE:Jan 63:60

**SOCIETIES OF ENGINEERS**

American Sanitary Engineering Intersociety Board holds annual meeting, CE:Feb 63:41

American Society of Mechanical Engineers asks for Comment on drafting standard, CE:Feb 63:71

Colombian Association of Consulting Engineers holds first anniversary, CE:Oct 63:91

EJC issues directory of engineering societies, CE:Nov 63:76

Junior Engineering Technical Society elects officers, CE:Oct 63:76

Junior Engineering Technical Society seeks engineering talent, CE:Mar 63:73

EUSEC meeting in Munich, Germany, CE:Sep 63:67

Inst. of Electrical and Electronics Engineers announces new publications program, CE:Sep 63:83

International Relationships in Engineering, William H. Wisely, CE:Jun 63:31

Dsc: C.H.D. Harper, CE:Sep 63:63; Ramiro Parada, Oct 63:60; R.E. Coughlin, Nov 63:73

**SOIL MECHANICS**

ASCE to participate in Permafrost Conference, CE:Jun 63:75

Colombia, S.A.--Placing Earth Fill for Troneras Dam, C.Y. Li, CE:Feb 63:37

Data on permeability and capillarity of soils sought by ASTM, CE:Sep 63:84

Sixth International Conference on Soil Mechanics and Foundation Engineering--dead-line for papers, CE:Dec 63:78

South Dakota--Lime Stabilizes Shale Subgrade on Interstate Highway, Richard O. Berg and Charles A. Piper, Jr., CE:Sep 63:35

Stability of Deep Cuts in Clay, W.D. Liam Finn, CE:Jun 63:67

Tennessee--Failure of a Side-Hill Highway Fill, William H. Rowan, Thomas R. Pierce, and Roger Webb, CE:May 63:40

Thin-wall Tube Sampler for Soft Soils, Harry R. Lee, Jr., CE:Jul 63:42

Virginia--Foundation Problems on the Second Elizabeth River Tunnel, George J. Murphy and Isaac W. Tarshansky, CE:Jul 63:54

See also Foundations

**SPACE EXPLORATION**

Air Force to have big aerospace test tunnel, CE:Jan 63:75

California--space systems center takes shape at Huntington Beach, CE:Jul 63:78

Florida--start of Moon Project at Merritt Island, CE:Feb 63:71; Nov 63:90

A Formidable Challenge--Will Engineers Maintain Their Place as Professionals in the Space Age?, A.M. Minton, CE:May 63:55

Texas--NASA flight accelerator at Houston, contracts let, CE:Apr 63:78; Jun 63:83

**STANDARDS**

American Society for Testing and Materials will use metric system in its standards, CE:Mar 63:88

American Society of Mechanical Engineers asks for comment on drafting standard, CE:Feb 63:71

**STEEL**

AISC conference studies new steel techniques, CE:Jun 63:80

Am. Inst. of Steel Construction publishes "Design Manual for Steel Plate Deck Bridges," CE:May 63:73

AISC "Manual of Steel Construction" available, CE:Aug 63:86

Canada--Height Tripled for Toronto building, J.L. Kellermann, CE:Mar 63:31

Choosing the Best Structural Fastener, Henry J. Stetina, CE:Nov 63:50

Economics of High-Strength Steel for Reservoirs and Standpipes, James L. Fox, CE:Apr 63:60

Disc: R.V. McGrath, CE:Jul 63:62

Indiana--contract let for Bethlehem Steel plant at Burns Harbor, CE:May 63:72

Michigan--Highway Bridges with All-Steel Abutments, J.F. McDermott, CE:Feb 63:54

Steel industry honors engineers, architects, designers, CE:Apr 63:79

Steel output, CE:Jun 63:81; CE:Aug 63:85; CE:Oct 63:91

U.S. Steel Corp. publishes "Building Design Data," CE:Dec 63:90

Wisconsin--Madison steam plant cited by AISC for architectural excellence, CE:Sep 63:83

Wisconsin--Milwaukee Has Highest Self-Supported Tower, Robert B. Rhodes, CE:Aug 63:48

**STREAM GAGING**

California--A Moving Boatline for River Flow Measurements at Sacramento, F.C. Craig and Winchell Smith, CE:Sep 63:43

**STRUCTURAL ENGINEERING**

Canada--Height Tripled for Toronto building, J.L. Kellermann, CE:Mar 63:31

Canada and U.S.--Sault Ste. Marie International Bridge--Design and Construction, C.H. Gronquist, CE:May 63:31

Choosing the Best Structural Fastener, Henry J. Stetina, CE:Nov 63:50

Design of Composite Beams for Highway Bridges, K. Ketchek, CE:Jul 63:60

Economic Advantages of Ultimate-Strength Design, Thomas W. Taylor, CE:Nov 63:65

## CIVIL ENGINEERING • 1963

Fire Protection for Aluminum Alloy Structural Shapes, J.G. Kaufman and R.C. Kasser, CE:Mar 63:46

Illinois--Engineers as Real Estate Developers, Paul Rogers and George A. Kennedy, CE:Jun 63:33

Michigan--Detroit's Automated Post Office, V.F. Leabu, CE:Mar 63:34

Desc: J.W. Silliman, CE:Jun 63:68

New York World's Fair 1964-1965--Building Trends, William Whipple, Jr., CE:May 63:36

Desc: L. Zetlin, CE:Aug 63:63

Non-Destructive Testing in Civil Engineering, C.W. Britzius, CE:Jan 63:21

Point of Zero Shear on Retaining Walls, Robert E. McLaughlin, CE:Aug 63:61

Structural Engineering Conf., San Francisco, Oct. 7-11, 1963, CE:Jan 63:62; May 63:44; Jul 63:43; Aug 63:44; Program, Aug 63:64; Oct 63:62-72; Nov 63:42; Dec 63:77

Texas--Baytown Cracking Unit Strengthened for Wind Forces, Bennett W. Burns, CE:Dec 62:40

Desc: L.H. Blakey, CE:Feb 63:58; reply by Bennett W. Burns, CE:Mar 63:69

Texas--Parking Garage in Downtown Houston Extended, Arnoldo Longoria, CE:Mar 63:57

Tornadoes--Effect on Buildings, Frank E. Burkett, CE:Jan 63:51

Corr. Paul E. Pedersen, CE:Apr 63:61

Two-Hinged Arches, Digital Computer Analysis and Design, Ira Hooper and P.C. Wang, CE:Dec 63:67

Virginia--Chesapeake Bay Bridge-Tunnel Project (symposium): 1. Engineering Design, L.J. Sverdrup, CE:Dec 63:44; 2. Two Tunnels and Four Islands, Joseph Peraino, Dec 63:47; 3. Bridge and Trestle Construction, John W. Fowler, Dec 63:50

Wisconsin--Milwaukee Has Highest Self-Supported Tower, Robert B. Rhodes, CE:Aug 63:48

### SURVEYING AND MAPPING

American firm to survey Iran, CE:Nov 63:94

Professional Practice of Surveying and Mapping Within Civil Engineering, report of ASCE Task Sub-committee, CE:Nov 63:56

Virginia--Chesapeake Bay Bridge-Tunnel Survey, P.Z. Michener and E.O. Heaton, CE:Jun 63:54

See also Photogrammetry

### TANKS

Economics of High-Strength Steel for Reservoirs and Standpipes, James L. Fox, CE:Apr 63:60

Dec: R.V. McGrath, CE:Jul 63:62

### TELESCOPES

West Virginia--world's largest radio telescope put in service, CE:Jan 63:72

### TELEVISION

New York--underwater TV used to inspect highway foundations, CE:Feb 63:73

TV program to encourage exchange of scientific and engineering information, CE:Dec 63:27

### TENNESSEE VALLEY AUTHORITY

See Dams, Recreation

### TESTS

Non-Destructive Testing in Civil Engineering, C.W. Britzius, CE:Jan 63:21

### TIMBER

Illinois--Timber Piles Reused in Place for Chicago Garage, Eugene A. Dubin, CE:Jun 63:39

Maryland--Reconstructing a Covered Timber Bridge in Baltimore County, Albert S. Salkowski, CE:Oct 63:36

### TOWERS

Australia--contract for U.S. Navy radio communication towers let, CE:Sep 63:82

Wisconsin--Milwaukee has Highest Self-Supported Tower, Robert B. Rhodes, CE:Aug 63:48

### TRAFFIC

Dec, deplored too many traffic signals, Albert Levitt, CE:Feb 63:58

Nominations open for Traffic Safety Award, CE:Aug 63:85

Traffic Engineers elect officers, CE:Dec 63:91

### TRANSMISSION LINES

Colorado River power transmission-line contract let, CE:Aug 63:87

Georgia--Environmental Factors in Transmission-Line Design, E.A. Roberts, CE:Jun 63:49

High-voltage lines for 15 Western states, CE:Jun 63:80

North Dakota--Contract let for Yellowtail Dawson transmission line, CE:Dec 63:92

Oregon--high-voltage line to California, CE:Mar 63:90

### TRANSPORTATION

ASCE Cincinnati Transportation Engineering Conference, Feb. 16-21, 1964; previewed, CE:Dec 63:42; program, Dec 63:69

First transportation census planned for 1963, CE:Jan 63:73

Planning service offered by three firms, CE:Feb 63:73

Principles of a sound transportation policy adopted by ASCE Board, CE:Jul 63:52

Urban Transportation Research Conference to be held at Andover, N.H., CE:Jul 63:65

See also Railroads, Rapid Transit, Waterways and Harbors

### TUNNELS

Australia--Machine Tunneling in Tasmania, Henry H. Thomas, CE:Mar 63:60

B. & O. completes tunnel improvement program, CE:Dec 63:88

California--Tunnel Driving for Relocation of Railroad above Oroville Dam, Harold E. Russell, CE:Feb 63:43

English Channel crossing by bridge-tunnel studied, CE:Sep 63:84

Minnesota--Storm Sewer Tunnel in St. Paul, John W. Bird, CE:Sep 63:51

New York--Freezing Aids Shaft Sinking for Tunnel under New York Harbor, George C. Stewart, William K. Gildersleeve, Stanley Jampole, and John E. Connolly, CE:Apr 63:52

Virginia--Chesapeake Bay Bridge-Tunnel Project, (symposium): 1. Engineering Design, L.J. Sverdrup, CE:Dec 63:44; 2. Two Tunnels and Four Islands, Joseph Peraino, Dec 63:47;

3. Bridge and Trestle Construction, John W. Fowler, Dec 63:50

Virginia--Chesapeake Bay Bridge-Tunnel Survey, P.Z. Michener and E.O. Heaton, CE:Jun 63:54

Virginia--Foundation Problems on the Second Elizabeth River Tunnel, George J. Murphy and Isaac W. Tarshansky, CE:Jul 63:54

See also Shafts

### TURBINES

Buy American turbines, CE:Apr 63:81

Washington--hydraulic turbines for Wells Dam Project, CE:Jul 63:77

### UNITED ENGINEERING CENTER

Ford Foundation grant to aid financing, CE:Feb 63:41

MIT opens alumni headquarters in, CE:Nov 63:49

United Engineering Trustees elects officers, CE:Jan 63:27

UET reports on fund raising for Center, CE:Jan 63:60

A Word with the Secretary About the United Engineering Center, William H. Wisely, CE:Dec 63:31

### UNITED ENGINEERING TRUSTEES

See United Engineering Center

### URBAN RENEWAL

Maryland--Baltimore Builds Charles Center to Revitalize Downtown Area, E.S. Deakyne, CE:Aug 63:44

Mexico--A New Project for Mexico City, Romeo Enriquez R. and Alejandro Fierro, CE:Jun 63:36

Corrections and additions, R. Enriquez R., CE:Sep 63:64

Oregon--new project for Portland, CE:Feb 63:74

### U.S. AIR FORCE

Colorado--At NORAD Combat Operations Center--New Techniques for Backfilling Shafts, J.D. Davenport and J.C. King, CE:Oct 63:55

### U.S. BUREAU OF RECLAMATION

Many big projects on 1963 agenda, CE:Feb 63:73

### U.S. CORPS OF ENGINEERS

Eliminates eastern ocean district, CE:Sep 63:81

New District Engineer office at Cape Canaveral, CE:May 63:74

### UNITED STATES GOVERNMENT

Civil Engineers in Government Service, E.E. Halmo, Jr., CE:Dec 63:53

Protest to Secretary of Defense on engineer-architect work limitation, CE:Dec 63:78

### UTILITIES

Germany--Utilities for the Divided City of Berlin, Gustav J. Requardt, CE:Jan 63:46

### VERMICULITE

Vermiculite Insulating Concrete--Pumped and Ported, Clayford T. Grimm, CE:Nov 63:67

### WALLS

Point of Zero Shear on Retaining Walls, Robert E. McLaughlin, CE:Aug 63:61

Waterproofing Exposed Masonry Walls, T.R.L. Lazarr, CE:Oct 63:40

### WATER POLLUTION

Are Our Criteria for Bathing-Water Pollution Valid? David L. Muss, CE:Nov 63:37

Department of Health, Education and Welfare make study of stream pollution, CE:Dec 63:91

Proposed removal of Water Pollution Control Program from PHS, in Byline Washington, CE:Jul 63:75

Dec: C.H. Atkins, CE:Sep 63:65; D.H. Howells, CE:Sep 63:65; Leo Weaver, CE:Sep 63:65

Rep. E.E. Halmo, CE:Sep 63:65

PHS research grants for water pollution control, CE:Nov 63:94

Water Pollution Control Federation holds 36th annual meeting in Seattle, CE:Nov 63:90

We Need More Municipal Waste Treatment Works, David H. Howells, CE:Sep 63:54

### WATERPROOFING

Waterproofing Exposed Masonry Walls, T.R.L. Lazarr, CE:Oct 63:40

### WATER RESOURCES

ASCE Water Resources Engineering Conference, Milwaukee, May 13-17, 1963, program, CE:Mar 63:61; Jun 63:42

Water resources of world to be studied, CE:Aug 63:88

### WATER SUPPLY

California--automation studied for aqueducts, CE:Mar 63:89

New York--Freezing Aids Shaft Sinking for Tunnel under New York Harbor, George C. Stewart, William K. Gildersleeve, Stanley Jampole, and John E. Connolly, CE:Apr 63:52

Oklahoma--100 Mile Pipeline Brings Water to Oklahoma City, Herman E. Smith and Lee B. Washbourne, CE:Oct 63:32

Photogrammetry to Locate Water, A.O. Quinn, CE:Aug 63:50

Wisconsin--100 mgd Added to Milwaukee's Water Supply, H.M. Ihling and D.P. Proudfit, CE:Sep 63:31

### WATER TREATMENT

Pennsylvania--automatic chlorination system for Philadelphia, CE:Apr 63:78

Water quality Research Council plans conference, CE:Jun 63:74

Wisconsin--100 mgd Added to Milwaukee's Water Supply, H.M. Ihling and D.P. Proudfit, CE:Sep 63:31

### WATERWAYS AND HARBORS

Concrete for Marinas, E.P. Sellner, CE:Jul 63:48

Waterways and Harbors Division Task Committee on Channel Stabilization Works meets, CE:Sep 63:68

### WATER WORKS

American Water Works Association elects officers, CE:Mar 63:91

AWWA holds 83rd Annual Conference, CE:Jul 63:76

### WELDING

American Welding Society Specifications for Welded Highway and Railway Bridges, La Motte Grover, CE:Dec 63:60

**Canada--Height Tripled for Toronto Building,** J.L. Kellermann, CE:Mar 63:31  
**Choosing the Best Structural Fastener,** Henry J. Stetina, CE:Nov 63:50  
**Civil engineering students winners of Lincoln Arc Welding Prizes,** CE:Nov 63:91  
**Revised American Welding Society building code available,** CE:Nov 63:94

**WIND**

**Texas--Baytown Cracking Unit Strengthened for High Wind Forces,** Bennett W. Burns, CE:Dec 62:40  
**Dsc:** L.H. Blakley, CE:Feb 63:58; reply by Bennett W. Burns, CE:Mar 63:69  
**Tornadoes--Effect on Buildings,** Frank E. Burkett, CE:Jan 63:51  
**Corr.**, Paul E. Pedersen, CE:Apr 63:61

**WONDERS OF THE WORLD, CIVIL ENGINEERING**

Civil engineering wonders featured in national magazines, CE:Jan 63:63

**ZONING**

**Iowa--Flood-Plain Zoning Ordinance Adopted by Iowa City,** J.W. Howe, CE:Apr 63:39  
**Dsc:** E.B. Mansur, CE:Jun 63:68

**Name Index****ABDUN-NUR, E. A.**

Dsc, CE:Sep 63:64, of "Do You Know That" item on Japanese train, CE:Jul 63:29

**BERNATHEY, JAMES M.**

Dsc, CE:Mar 63:70, on "The Rise and Fall of Professional Engineering," CE:Jan 63:49

**AMMANN, O. H.**

O. H. Ammann Research Fellowship established, CE:May 63:45

**AMRHEIN, JAMES E.**

See Walter E. Kunze, CE:Dec 63:56

**ARCHER, AUGUSTUS R.**

Dsc, CE:Nov 63:72, of "Scour at Bridge Piers," CE:Aug 63:63

**ATKINS, C. H.**

Dsc, CE:Sep 63:65, on "Byline Washington," CE:Jul 63:72

**BAILEY, DANIEL S., JR.**

New Hampshire--Flexible Pavement for Interstate Route, CE:Jan 63:44

**BAKER, JOHN H.**

California--Cleaning and Lining 6-in. Pipeline in Mesa Verde National Park, CE:Apr 63:46

**BARNETT, JOSEPH**

Rail Transit in the Highway Median--Yes or No?, CE:Jan 63:34

**BELL, FRANK A., JR.**

Short-Term Air-Pollution Studies in Five Cities, CE:Feb 63:48

**BELT, ROBERT M.**

Hawaii--New Land Worth \$23 Million for Honolulu, CE:Sep 63:60

**BERG, RICHARD O.**

South Dakota--Lime Stabilized Shale Subgrade on Interstate Highway, with Charles A. Piper, Jr., CE:Sep 63:35

**BERRY, RICHARD G.**

Dsc, CE:Feb 63:57, of "A Blueprint for the Profession," CE:Dec 62:52

**BESPALOW, EUGENE F.**

Dsc, CE:Oct 63:60, on "Indoctrination Ritual for Engineers," CE:Aug 63:33

**BESSELIEVRE, EDMUND B.**

An Engineer Goes Abroad, CE:Jan 63:17  
 Dsc: S. Prakash, CE:Jun 63:69

**BETTS, CLIFFORD A.**

Dsc on the need for a uniform nomenclature in hydraulics, CE:Sep 63:65

**BILLINGTON, DAVID P.**

Princeton Program Prepares Engineers for Policy-Making Positions, with Norman J. Sollenberger, CE:Apr 63:48

Correction by authors, CE:Jun 63:69

**BIRD, JOHN W.**

Minnesota--Storm Sewer Tunnel in St. Paul, CE:Sep 63:51

**BLACKMAN, JAMES S.**

Dsc, Egyptian university needs ASCE publications, CE:Aug 63:62

**BLAKLEY, LEWIS H.**

Dsc, CE:Feb 63:58, of "Baytown, Tex., Cracking Unit Strengthened for High Wind Forces," CE:Dec 62:40; reply by Bennett W. Burns, CE:Mar 63:69

**BLOOM, DAVID**

High-Rise Concrete Buildings, CE:Aug 63:57  
 Dsc: G.A. Kennedy, CE:Nov 63:72; Walter H. Wheeler, Dec 63:68

**BOGERT, CLINTON L.**

Dsc, CE:Jun 63:68, of "Professional Identification in ASCE," CE:Apr 63:31

**BOLLONG, J. W. ARCH.**

Dsc, CE:Feb 63:57, on "The Great Brinkley Expose," CE:Dec 62:31

**BOWMAN, WALDO**

Competence Is What Counts Most, CE:Nov 63:35  
 Installed as ASCE President at San Francisco Conference, CE:Oct 63:62  
 Nominated for President of ASCE, CE:Jun 63:48

**BRADSHAW, RICHARD R.**

Dsc, CE:Jun 63:69, of "Richmond, Ind., Sewer Extension Promotes Municipal Growth," CE:Mar 63:49

**BRITZIUS, C. W.**

Non-Destructive Testing in Civil Engineering, CE:Jan 63:21

**BURKETT, FRANK E.**

Tornadoes--Effects on Buildings, CE:Jan 63:51  
 Corr., Paul E. Pedersen, CE:Apr 63:61

**BURNETT, BENNETT W.**

Texas--Baytown Cracking Unit Strengthened for High Wind Forces, CE:Dec 62:40

Dsc: L.H. Blakley, CE:Feb 63:58; reply by Bennett W. Burns, CE:Mar 63:69

**BUSHNELL, WALTER J.**

Oregon--Interceptor Sewer Built in Lake Oswego, with William J. Dorner, CE:Mar 63:54

**CAMPAGNE, J. P. A. VAN LOOKEREN**

Nylon Used in Hydraulic Engineering, CE:Jan 63:31

**CARR, JAMES K.**

Russia--Construction Boom, CE:Mar 63:39

**CLARK, P. W.**

Dsc, CE:Nov 63:72, of "News Brief," "Texas Concrete Bridge Reinforced with High-Strength Steel Bars," CE:Sep 63:83

**CLAY, LUCIUS**

Awarded John Fritz Medal, CE:Aug 63:74

**COLE, RALPH**

A Retired Engineer in the Peace Corps (Ralph Cole), Phillip D. Hardberger, CE:Nov 63:54

**CONNOLLY, JOHN E.**

See George C. Stewart, CE:Apr 63:52

**CORBETT, DON M.**

Public Recognition--A Measure of the Civil Engineer's Success, CE:Apr 63:55

**COUGHLIN, R. E.**

Dsc, CE:Nov 63:73, of "International Relationships in Engineering," CE:Jun 63:31

**CRAIG, F. C.**

California--A Moving Boatline for River Flow Measurement at Sacramento, with Winchell Smith, CE:Sep 63:43

**CRUMP, LEWIS W.**

Dsc, CE:Oct 63:60, on "Indoctrination Ritual for Engineers," CE:Aug 63:33

**CUMMINGS, ROBERT**

Former ASCE Director dies, CE:Jan 63:60

**DANIELS, ALBERT W.**

Dsc, CE:Feb 63:31, on "The Public Image of the Civil Engineer," CE:Apr 63:61

**DAVENPORT, J. D.**

Colorado--At NORAD Combat Operations Center--New Techniques for Backfilling Shafts, with J.C. King, CE:Oct 63:55

**DAWSON, FRANCIS**

Former Director of ASCE dies, CE:May 63:76

**DEAKYNE, E. S.**

Maryland--Baltimore Builds Charles Center to Revitalize Downtown Area, CE:Aug 63:54

**DORNER, WILLIAM J.**

Oregon--Interceptor Sewer Built in Lake Oswego, with Walter J. Bushnell, CE:Mar 63:54

**DUBIN, EUGENE A.**

Illinois--Timber Piles Reused in Place for Chicago Garage, CE:Jun 63:39

**EARNEST, G. BROOKS**

Civil Engineering Education--Some Vital Issues, CE:Feb 63:52  
 Dsc: C.C. Johnston, CE:Apr 63:61; C.R. Neill, CE:Apr 63:61, J.W. Feiss, CE:Jun 63:68

**EINSTEIN, H. A.**

Experimental Apparatus Studies Sediment Transport in Closed Conduits, with W.H. Graf, CE:Oct 63:52

**EISENHOWER, DWIGHT D.**

Presented with Benjamin F. Fairless Memorial Medal, CE:Aug 63:84

**ELLIS, C. W.**

Dsc on CIVIL ENGINEERING Reader Survey questionnaire prompts careful reading, CE:Jul 63:62

**ELMHCRST, ROY G.**

Dsc, thanks for an ASCE Student Chapter scholarship, CE:Aug 63:63

**ENDICOTT, JOHN**

Winner of ASCE Research Fellowship, CE:Sep 63:68

**ENGSTROM, U. V.**

Washington--Innovations at Wanapum Dam, CE:Oct 63:43

**ENRIQUEZ R., ROMEO**

Mexico--A New Project for Mexico City, with Alejandro Fierro, CE:Jun 63:36  
 Corrections and additions, R. Enriquez R., CE:Sep 63:64

**ERGANIAN, GEORGE**

Indiana--Richmond Sewer Extension Promotes Municipal Growth, with William Edwin Ross, CE:Mar 63:48

Dsc: R.R. Bradshaw, CE:Jun 63:69

CIVIL ENGINEERING • 1963

- FEISS, J. W.**  
Disc, CE:Jun 63:68, of "Civil Engineering Education," CE:Feb 63:52
- FELDMAN, ARTHUR**  
Disc, CE:Feb 63:58, on conservation of resources
- FIERRO, ALEJANDRO**  
See Romeo Enriquez R.
- FINN, W. D. LIAM**  
Stability of Deep Cuts in Clay, CE:Jun 63:67
- FINTEL, MARK**  
See Walter E. Kunze, CE:Dec 63:56
- FISCHER, GEORGE E.**  
Disc on overseas jobs for U.S. construction personnel, CE:Jul 63:62
- FISK, J. H.**  
Retires from ASCE staff, CE:Jan 63:65
- FOUSS, JAMES L.**  
New Machine Lays Plastic Drains, CE:Apr 63:58
- FOWLER, JOHN W.**  
Virginia--Chesapeake Bay Bridge-Tunnel Project: Bridge and Trestle Construction, CE:Dec 63:50
- FOWLER, H. S.**  
Disc on a motorist's views on signs and surfaces, CE:Nov 63:72
- FOX, JAMES L.**  
Economics of High-Strength Steel for Reservoirs and Standpipes, CE:Apr 63:60  
Disc: R. V. McGrath, CE:Jul 63:62
- FRANZINI, JOSEPH B.**  
California--Evaporation from a Covered Reservoir at Stanford University, with David W. Hill, CE:May 63:35
- FRENCH, W. D.**  
Joins staff of Technical Publications, CE:Jul 63:45
- FREY, CARL**  
Engineering Salaries Up 60 Percent in Ten Years--EJC Survey, CE:May 63:42
- FRIEDMAN, EDMUND**  
Participation in 1963 Freedom Bond Drive urged, CE:Mar 63:74  
A Review of the Technical Divisions of ASCE, President's Annual Address, CE:Jun 63:52
- GALBIATI, I. V.**  
Canada--Concrete Cutoff Wall Drilled Down 250 ft for Manicouagan 5 Dam, Quebec, CE:Nov 63:59
- GEERTSON, PHILLIP**  
Disc, CE:Sep 63:64, on "Society Activities and Objectives," CE:Jun 63:62
- GILDERSLEEVE, WILLIAM K.**  
See George C. Stewart, CE:Apr 63:52
- GOOCH, ROBERT S.**  
Computers Provide a Shortcut in Earthwork Estimates for Dam Design, CE:Oct 63:58
- GRAF, W. H.**  
Experimental Apparatus Studies Sediment Transport in Closed Conduits, with H.A. Einstein, CE:Oct 63:52
- GRAVES, STANLEY A.**  
New York--Unique Display Problems Solved for GE's World's Fair Pavilion, CE:Aug 63:45
- GRIMM, CLAYFORD T.**  
Vermiculite Insulating Concrete--Pumped and Sprayed, CE:Nov 63:67
- GRONQUIST, C. H.**  
Michigan and Ontario--Sault Ste. Marie International Bridge--Design and Construction, CE:May 63:31
- GROVER, LA MOTTE**  
American Welding Society Specifications for Welded Highway and Railway Bridges, CE:Dec 63:60
- HAGESTAD, HAROLD A.**  
Disc, CE:Feb 63:57, of "A Blueprint for the Profession," CE:Dec 62:52
- HALL, JAY V., JR.**  
Structures for Shore Protection, CE:Jul 63:38
- HALL, NEWMAN A.**  
Disc requesting engineering problems, CE:Jun 63:69
- HALMOS, E. E., JR.**  
Civil Engineers in Government Service, CE:Dec 63:53  
The European Common Market, CE:Jan 63:24  
Reply to discussers of "Byline Washington," CE:Sep 63:85
- HALSTED, DONALD E.**  
Alaska--Precast and Prestressed Bridge at Schooners Bend Fails, CE:Aug 63:60
- HANDS, H. R.**  
H. R. Hands, new ASCE Manager of Information, CE:Oct 63:76
- HARDBERGER, PHILLIP D.**  
A Retired Engineer in the Peace Corps (Ralph Cole), CE:Nov 63:54
- HARPER, C. H. D.**  
Disc, CE:Sep 63:63, on "International Relationships in Engineering," CE:Jun 63:31
- HART, ALAN S.**  
California--Paving Interstate 80 in the Sierra Nevada, CE:Nov 63:62
- HEATON, E. O.**  
See P.Z. Michener, CE:Jun 63:54
- HENDERSON, ROBERT D.**  
Disc, CE:Oct 63:60, on "Indoctrination Ritual for Engineers," CE:Aug 63:33
- HIGGINSON, E. C.**  
Maximum Size of Aggregate Affects Strength of Concrete, with G.B. Wallace, and E.L. Ore, CE:Nov 63:38
- HILL, DAVID W.**  
California--Evaporation from a Covered Reservoir at Stanford University, with Joseph B. Franzini, CE:May 63:35
- HOLMSTROM, R. K.**  
ASCE representative in Chicago dies, CE:Jul 63:45
- HOOPER, IRA**  
Two-Hinged Arches, Digital Computer Analysis and Design, with P.C. Wang, CE:Dec 63:67
- HOWARD, C. M.**  
Honored by Student Chapter, CE:Sep 63:68
- HOWE, J. W.**  
Iowa--Flood-Plain Zoning Ordinance Adopted by Iowa City, CE:Apr 63:39  
Disc: E.B. Mansur, CE:Jun 63:68
- HOWELLS, DAVID H.**  
We Need More Municipal Waste Treatment Works, CE:Sep 63:54  
Disc, CE:Sep 63:65, on Byline Washington, CE:Jul 63:72
- HOWSON, L. R.**  
Wisconsin--Activated Sludge Plant For Milwaukee, with Ray D. Leary, CE:Sep 63:44  
Disc: C.E. Keefer, CE:Nov 63:73
- HRENNIKOFF, A.**  
Disc on "Opposition to New Plan of Digests for Transactions," CE:Sep 63:63
- HUNT, ELDON V.**  
Disc, CE:Oct 63:60, on "Indoctrination Ritual for Engineers," CE:Aug 63:33
- IHLING, H. M.**  
Wisconsin--100 mgd Added to Milwaukee's Water Supply, with D.P. Proudfit, CE:Sep 63:31
- JAMPOLE, STANLEY**  
See George C. Stewart, CE:Apr 63:52
- JENSEN, ALBERT C.**  
Eric Canal--Engineering Clinton's Ditch, CE:Sep 63:48
- JESSUP, WALTER E.**  
Former editor of CIVIL ENGINEERING co-authors book, "Law and Specifications for Engineers and Scientists," CE:Nov 63:92
- JOHNSON, HAROLD L.**  
Disc, CE:Oct 63:60, on "Indoctrination Ritual for Engineers," CE:Aug 63:33
- JOHNSTON, CLAIR C.**  
Disc, CE:Apr 63:61, of "Civil Engineering Education," CE:Feb 63:52
- KASSER, R. C.**  
See J.G. Kaufman, CE:Mar 63:46
- KAUFMAN, J. G.**  
Fire Protection for Aluminum Alloy Structural Shapes, with R.C. Kasser, CE:Mar 63:46
- KEEFER, C. E.**  
Disc, CE:Nov 63:73, of "Activated Sludge Plant for Milwaukee," CE:Sep 63:44
- KELLERMANN, J. L.**  
Canada--Height Tripled for Toronto Building, CE:Mar 63:31
- KENNEDY, GEORGE A.**  
Disc, CE:Nov 63:72, of "High-Rise Concrete Buildings," CE:Aug 63:57  
See Paul Rogers, CE:Jun 63:33
- KENNEY, T. C.**  
Disc, CE:Oct 63:60, on "Indoctrination Ritual for Engineers," CE:Aug 63:33
- KETCHEK, K.**  
Design of Composite Beams for Highway Bridges, K. Ketchek, CE:Jul 63:60
- KING, J. C.**  
Colorado--At NORAD Combat Operations Center--New Techniques for Backfilling Shafts, with J.D. Davenport, CE:Oct 63:55
- KOLLAR, K. L.**  
Exporting Consulting Engineering, CE:Jul 63:58
- KUNZE, WALTER E.**  
Yugoslavia--Skopje Earthquake Damage, with Mark Fintel and James E. Amrhein, CE:Dec 63:56
- LACHER, WALTER S.**  
Disc, CE:Feb 63:57, on "The Great Brinkley Expose," CE:Dec 62:31
- LARSEN, HAROLD T.**  
Disc, excerpts from letter on his summer in the Scandinavian countries, CE:Sep 63:63  
Retires from headquarters staff, CE:Jun 63:72
- LAZARR, T. R. L.**  
Waterproofing Exposed Masonry Walls, CE:Oct 63:40
- LEA, NORMAN D.**  
The Hour of Destiny for Engineering, CE:Nov 63:70
- LEABU, VICTOR F.**  
Michigan--Detroit's Automated Post Office, CE:Mar 63:34  
Disc: J.W. Silliman, CE:Jun 63:69
- LEARY, RAY D.**  
Wisconsin--Activated Sludge Plant for Milwaukee, with L.R. Howson, CE:Sep 63:44  
Disc: C.E. Keefer, CE:Nov 63:73
- LEE, HARRY R., JR.**  
Thin-Wall Tube Sampler for Soft Soils, CE:Jul 63:42
- LEHMAN, P. JOSEPH**  
Disc on availability of his paper on dimensional analysis, CE:Mar 63:70

- LENT, C. E., JR.**  
Joins ASCE staff, CE:Jan 63:60
- LEVITT, ALBERT**  
Disc, deplored too many traffic signals, CE:Feb 63:58
- LI, C. Y.**  
Colombia, S.A.--Placing Earth Fill for Troneras Dam, CE:Feb 63:37
- LONGORIA, ARNOLDO**  
Texas--Parking Garage in Downtown Houston Extended, CE:Mar 63:57
- LUPFER, E. P.**  
Former ASCE officer dies, CE:Feb 63:60
- MANN, O. CLARKE**  
Disc, CE:Jun 63:69, on "Pretest Tiebacks and Drilled-In Caissons," CE:Apr 63:36
- MANSUR, EVERETT B.**  
Disc, CE:Jun 63:68, on "Modern Flood-Plain Zoning Ordinance Adopted by Iowa City," CE:Apr 63:38
- MATTERN, DONALD H.**  
Receives ASCE Professional Recognition Award, CE:Apr 63:66
- MCASLAND, S. P.**  
Colombia, S.A.--International Credit for Andean Hydro, CE:Jan 63:36
- McCRAW, WILLIAM F., JR.**  
Ohio--Meldahl Locks and Dam on the Ohio River, CE:Sep 63:56
- McDERMOTT, J. F.**  
Michigan--Highway Bridges with All-Steel Abutments, CE:Feb 63:54
- McGRATH, RAYMUND V.**  
Disc, CE:Jul 63:62, on "Economics of High-Strength Steel for Reservoirs and Standpipes," CE:Apr 63:60
- MC LAUGHLIN, ROBERT E.**  
Point of Zero Shear on Retaining Walls, CE:Aug 63:61
- MEIER, R. W.**  
Disc, CE:Jun 63:69, on Westinghouse Tele-communications Center in Pittsburgh, Pa., CE:Mar 63:91
- MICHENER, P. Z.**  
Virginia--Chesapeake Bay Bridge-Tunnel Survey, with E.O. Heaton, CE:Jun 63:54
- MINTON, A. M.**  
A Formidable Challenge--Will Engineers Maintain Their Place as Professionals in the Space Age?, CE:May 63:55
- MITCHELL, ROBERT J.**  
Pennsylvania--Incinerator Program for Delaware County, CE:Jun 63:64
- MONTGOMERY, HUGH B.**  
What Comes Before Construction of a Dam?, Hugh B. Montgomery, CE:Apr 63:56
- MOORE, CHESTER A.**  
Civil Engineering Education... What Educators and Employers Think, CE:Dec 63:64
- MURPHY, GEORGE J.**  
Virginia--Foundation Problems on the Second Elizabeth River Tunnel, with Isaac W. Tarshansky, CE:Jul 63:54
- MUSS, DAVID L.**  
Are Our Criteria for Bathing-Water Pollution Valid?, CE:Nov 63:37
- NEILL, C. R.**  
Disc, CE:Apr 63:61, on "Civil Engineering Education," CE:Feb 63:52  
Disc, CE:Aug 63:63, on "Scour at Bridge Piers," CE:May 63:46, 48
- O'CONNOR, GERALD A.**  
Venezuela--Long Concrete Cylinder Piles for Platform in Lake Maracaibo, CE:Apr 63:50
- ORE, E. L.**  
See E.C. Higginson, CE:Nov 63:38
- PAGAN, ALFRED R.**  
Hydraulic Design of Small Bridges, CE:Jul 63:35
- PAGAY, S. N.**  
See C.J. Posey, CE:Mar 63:71
- PARADA, RAMIRO**  
Disc, CE:Oct 63:60, on "International Relationships in Engineering," CE:Jun 63:31
- PARISI, PAUL A.**  
New Manager of ASCE Technical Publications, CE:Jul 63:55
- PATEL, K. R.**  
Pile Spacing for Retaining-Wall Foundations, K.R. Patel, CE:Dec 63:43
- PEDERSEN, PAUL E.**  
Corr, CE:Apr 63:61, of "Effects of Tornadoes on Buildings," CE:Jan 63:51
- PERAINO, JOSEPH**  
Virginia--Chesapeake Bay Bridge-Tunnel Project: Two Tunnels and Four Islands, CE:Dec 63:47
- PERKINS, C. E.**  
For Planning Engineers--Big Opportunities Ahead, CE:Oct 63:48
- PERKINS, PHILIP H.**  
Disc, CE:Nov 63:73, on "Professional Identification in ASCE," CE:Apr 63:31  
Reply, W.H. Wisely, CE:Nov 63:73
- PETERS, ROBERT M.**  
Washington--Aluminum in Rocky Reach Dam, CE:Jul 63:32  
Disc, J.H. Fetty, CE:Oct 63:61  
Rep. by Author: CE:Oct 63:61
- PETERSEN, STEPHEN G.**  
Disc, CE:Jul 63:62, on "Words to the Secretary on Professional Identification in ASCE," CE:Apr 63:31
- PIERCE, JACK W.**  
Report on Pipeline Practice by ASCE Pipeline Division Task Force, CE:Aug 63:34
- PIERCE, THOMAS R.**  
See William H. Rowan, CE:May 63:40
- PIPER, CHARLES A., JR.**  
South Dakota--Lime Stabilizes Shale Subgrade on Interstate Highway, with Richard O. Berg, CE:Sep 63:35
- PLOTKIN, E. S.**  
Free Fallout-Shelter Design Data, CE:Oct 63:54
- POSEY, C. J.**  
Manning's Formula for Wide Trapezoidal Channels, with S.N. Pagay, CE:Mar 63:71  
Scour at Bridge Piers: Protection of Threatened Piers, CE:May 63:48  
Disc, C.R. Neill, CE:Aug 63:63; A.R. Archer, Nov 63:72  
Reply, L. Stabilini, CE:Aug 63:63
- PRAKASH, SHAMSHER**  
Disc, CE:Jun 63:69, of "An Engineer Goes Abroad," CE:Jan 63:17
- PRASZKER, MICHAEL**  
Installation Problems with Cast-in-Place Concrete Piles, CE:Mar 63:50
- PROUDFIT, D. P.**  
Wisconsin--100 mgd Added to Milwaukee's Water Supply, with H.M. Ihling, CE:Sep 63:31
- QUINN, A. O.**  
Photogrammetry to Locate Water, CE:Aug 63:50
- RADZIKOWSKI, H. A.**  
Chicago Road Show Features New Equipment, CE:Feb 63:32
- SCHINDLER, RICHARD R.**  
Disc, CE:Feb 63:58, praising features of Civil Engineering and discussing "A Blueprint for the Profession," CE:Dec 62:52
- SCHMIDT, ROBERT**  
Disc, CE:Oct 63:61, on Report of ASCE Task Committee on Society Objectives, CE:Jun 63:62
- SCHNELLER, FRANK**  
1964 Previews, CE:Dec 63:32
- SCHUMACHER, ROBERT**  
Disc on engineering interest in a Moscow street scene, CE:Mar 63:70
- SEIGFRIED, WALTER D.**  
Disc on ASCE publications for emerging countries, CE:Aug 63:62
- SELLNER, E. P.**  
Concrete for Marinas, CE:Jul 63:48
- SHEEHAN, WILLIAM M.**  
Disc, CE:Jan 63:53, of "Roads to New York's World's Fair," CE:Nov 62:32
- SHEPARD, A. P.**  
Metal-and-Paint Coatings for Long-Term Corrosion Resistance, CE:Oct 63:50
- SILLIMAN, J. W.**  
Disc, CE:Jun 63:68, of "Detroit's Automated Post Office," CE:Mar 63:34
- SMITH, HERMAN E.**  
Oklahoma--100-mile Pipeline Brings Water to Oklahoma City, with Lee B. Washbourne, CE:Oct 63:32
- SMITH, WINCHELL**  
California--A Moving Boatline for River-Flow Measurement at Sacramento, with F.C. Craig, CE:Sep 63:43
- SOLLENBERGER, NORMAN J.**  
See David P., Billington, CE:Apr 63:48

**SPOFFORD, C. M.**  
ASCE Hon. M. and former officer dies, CE:  
Sep 63:69

**STABILINI, LUIGI**  
Scour at Bridge Piers: Cause and Effect,  
CE:May 63:46  
Dsc. C.R. Neill, CE:Aug 63:63; A.R. Archer,  
Nov 63:72  
Reply, L. Stabilini, CE:Aug 63:63

**STETINA, HENRY J.**  
Choosing the Best Structural Fastener,  
CE:Nov 63:50

**STEWART, GEORGE C.**  
New York--Freezing Aids Shaft Sinking for  
Tunnel under New York Harbor, with William K.  
Gildersleeve, Stanley Jampole, and John E.  
Connolly, CE:Apr 63:52

**STITH, RAYMOND J.**  
A Blueprint for the Profession, CE:Dec 62:52  
Dsc: H.A. Hagestad, CE:Feb 63:57; G.R.  
Berry, CE:Feb 63:57; V.A. Wiesaki, CE:Feb  
63:57; R.R. Schindler, CE:Feb 63:58

**STRAUB, LORENZ G.**  
Internationally known hydraulic engineer,  
dies, CE:Dec 63:94

**SVERDRUP, L. J.**  
Virginia--Chesapeake Bay Bridge-Tunnel  
Project: Engineering Design, CE:Dec 63:44

**SYLVESTER, JACK**  
Dsc, CE:Dec 63:68, of "The Wearing of the  
Badge," CE:Oct 63:31

**TARSHANSKY, ISAAC W.**  
See George J. Murphy, CE:Jul 63:54

**TAYLOR, THOMAS W.**  
Economic Advantages of Ultimate-Strength  
Design, CE:Nov 63:65

**TERZAGHI, KARL**  
ASCE Hon. Mem., dies, CE:Dec 63:76

**THOMAS, HENRY H.**  
Australia--Machine Tunneling in Tasmania,  
CE:Mar 63:60

**TOLLES, FRANK**  
Former ASCE Director dies, CE:Jan 63:80

**TURNER, N. P., JR.**  
Negotiating for Engineering Services--the Con-  
sulting Engineer's Viewpoint, CE:Mar 63:52

**VENEGAS, LEON E.**  
Dsc, CE:Sep 63:64, re comments in "Byline  
Washington" on Inter-American Highway in Costa  
Rica, CE:Apr 63:76

**VON KARMAN, THEODORE**  
ASCE Honorary member dies, CE:Jun 63:71  
First recipient of National Medal of Science,  
CE:Feb 63:41; receives award, CE:Apr 63:66  
Dsc: R. Schmidt, CE:Jun 63:68

**WALKER, PAUL K.**  
Named Director, Office of Engineering, Agency  
for International Development, CE:Dec 63:42

**WALLACE, G. B.**  
See E.C. Higginson, CE:Nov 63:38

**WANG, P. C.**  
See Ira Hooper, CE:Dec 63:67

**WASHBOURNE, LEE B.**  
See Herman E. Smith, CE:Oct 63:32

**WEAVER, LEO**  
Dsc, CE:Sep 63:65, on "Byline Washington,"  
CE:Jul 63:72

**WEBB, ROGER**  
See William H. Rowan, CE:May 63:40

**WEIDNER, C. KEN**  
The Rise and Fall of Professional Engineering,  
CE:Jan 63:49  
Dsc: J.M. Abernathy, CE:Mar 63:70

**WHEELER, WALTER H.**  
Dsc, CE:Dec 63:68, on "High-Rise Concrete  
Buildings," CE:Aug 63:57

**WHIPPLE, WILLIAM, JR.**  
New York World's Fair 1964-1965--Building  
Trends, CE:May 63:36  
Dsc: L. Zetlin, CE:Aug 63:63

**WHITE, ROBERT E.**  
New York--Pretest Tiebacks and Drilled-In  
Caissons for Retaining Wall in Syracuse,  
CE:Apr 63:36  
Dsc: O.C. Mann, praising article, CE:Jun  
63:69

**WHITMAN, EZRA**  
ASCE past president, dies, CE:Mar 63:43

**WHITTON, REX M.**  
Dsc, CE:Feb 63:57, on "The Great Brinkley  
'Expose,'" CE:Dec 62:31

**WIENSKI, VINCENT A.**  
Dsc, CE:Feb 63:57, of "A Blueprint for the  
Projection," CE:Dec 62:52

**WILEY, R. B.**  
Honorary Member of ASCE dies, CE:Jul 63:65

**WILLSEA, FREDERICK**  
Dsc, recommending trained management for  
fallout shelters, CE:Oct 63:61

**WILLSON, G. H.**  
Dsc, CE:Feb 63:57, on "The Great Brinkley  
'Expose,'" CE:Dec 62:31

**WISELY, WILLIAM H.**  
The Great Brinkley "Expose," Dec 62:31  
Dsc: Rex M. Whitton, J.W. Arch. Bollong,  
Walter S. Lacher, G.H. Willson, CE:Feb  
63:57  
An Indoctrination Ritual for Engineers,  
CE:Aug 63:33

Dsc: H.L. Johnson, E.F. Bespalow, E.V.  
Hunt, T.C. Kenney, L.W. Crump, R.D. Henderson,  
CE:Oct 63:60  
International Relationships in Engineering,  
CE:Jun 63:31  
Dsc: C.H.D. Harper, Sep 63:63; Ramiro  
Parada, Oct 63:60; R.E. Coughlin, Nov 63:73 Reply,  
W.H. Wisely, Nov 63:73  
The Public Image of the Civil Engineer,  
CE:Feb 63:31

Dsc: A.W. Daniels, CE:Apr 63:61  
The United Engineering Center, CE:Dec 63:31  
The Wearing of the Badge, CE:Oct 63:31  
Dsc: Jack Sylvester, CE:Dec 63:68

**ZETLIN, LEV**  
Dsc, on importance of naming the engineers,  
CE:Aug 63:63

## Civil Engineering Departments

Advertising  
Am-Soc Briefs  
ASCE Meetings Scheduled  
ASCE News\*  
Applications for Membership  
By-line Washington  
Catalog Digests  
Civil Engineering Abstracts  
Deceased  
Do You Know That  
Engineering Salary Index  
Engineering Societies Personnel  
Service, Inc.  
Engineers' Information Service  
Engineers' Notebook\*  
Equipment, Materials and Methods  
Exam Gems

\*Indexed

Films Available  
From the Manufacturers  
Index to Advertisers  
Literature Available  
New in Education  
New Publications  
News Briefs\*  
News of Local Sections  
News of Members  
Non-ASCE Meetings  
Notes from the Local Sections  
Positions Announced  
Proceedings Papers Available as  
Separates  
The Readers Write\*  
Recent Books  
The Younger Viewpoint

